

INSIGNIA™

# 32" 720p 60Hz LED TV

NS-32D220NA16



**Before using your new product, please read these instructions to prevent any damage.**

# INSIGNIA™

## Contents

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CHILD SAFETY .....	1
Important Safety Instructions .....	2
WARNING .....	2
CAUTION .....	3
Introduction .....	4
INlink .....	4
Game mode .....	4
Installing the stands or wall-mount bracket .....	5
Installing the stands .....	5
Installing a wall-mount bracket .....	7
TV components .....	8
Package contents .....	8
Front .....	8
TV buttons .....	8
Side .....	9
Back .....	10
Remote control .....	11
What connection should I use? .....	12
Connecting a cable or satellite box .....	13
HDMI (best) .....	13
Component video (better) .....	14
AV (composite video) (good).....	15
Coaxial (good).....	16
Connecting an antenna or cable TV (no box) .....	17
Connecting a DVD or Blu-ray player .....	18
HDMI (best) .....	18
Component video (better) .....	19
AV (composite video) (good).....	20
Connecting a game console .....	21
HDMI (best) .....	21
Component video (better) .....	22
AV (composite video) (good).....	23
Connecting a computer .....	24

- Connecting a USB flash drive .....25
- Connecting headphones .....26
- Connecting external speakers or a sound bar .....27
  - Digital audio ..... 27
  - Analog audio ..... 28
- Connecting a home theater system with multiple devices .....29
- Connecting power .....30
- Using the remote control .....31
  - Installing remote control batteries ..... 31
  - Aiming the remote control ..... 31
  - Programming universal remote controls ..... 32
  - Viewing universal remote control codes ..... 32
- Turning on your TV for the first time .....33
- Understanding the basics .....35
  - Turning your TV on or off ..... 35
  - Selecting the video input source ..... 35
  - On-screen menu overview ..... 36
  - Navigating the menus ..... 37
  - Selecting a channel ..... 37
  - Adjusting the volume ..... 37
  - Viewing channel information ..... 37
- Using INlink .....38
  - Turning INlink on or off ..... 38
  - Turning Device Auto Power Off on or off ..... 38
  - Turning TV Auto Power On on or off ..... 39
  - Turning Audio Receiver on or off ..... 39
  - Displaying a list of INlink-compatible devices ..... 40
  - Selecting an INlink-compatible device ..... 40
- Using a USB flash drive .....41
  - Switching to USB mode ..... 41
  - Browsing photos ..... 41
  - Viewing favorite photos ..... 42
  - Viewing photos in a slideshow ..... 43
- Adjusting the picture .....43
  - Adjusting the TV picture ..... 43
  - Automatically adjusting the aspect ratio ..... 45
  - Setting the power on picture mode ..... 45

Adjusting the sound .....	45
Adjusting sound settings .....	45
Selecting the audio out mode .....	46
Playing TV audio only .....	47
Changing channel settings .....	47
Automatically scanning for channels .....	47
Hiding channels .....	49
Setting up a favorite channel list .....	49
Viewing a favorite channel .....	50
Adding or changing a channel label .....	50
Checking the digital signal strength .....	50
Setting parental controls .....	51
Setting or changing the password .....	51
Blocking unrated TV .....	52
Setting parental control levels .....	52
Downloading rating information .....	54
Locking control buttons .....	55
Using closed captioning .....	55
Turning closed captioning on or off .....	55
Selecting the analog closed captioning mode .....	56
Selecting the digital closed captioning mode .....	56
Customizing digital closed captioning settings .....	57
Adjusting time settings .....	57
Setting the clock .....	57
Setting the sleep timer .....	58
Adjusting menu settings .....	59
Selecting the menu language .....	59
Turning the input sensor on or off .....	59
Labeling an input source .....	59
Maintaining .....	60
Cleaning the TV cabinet .....	60
Cleaning the TV screen .....	60
Troubleshooting .....	60
Viewing system information .....	60
Learning more .....	61
Updating the TV firmware .....	61
Customizing TV settings .....	62
Restoring settings to the defaults .....	62
Video and audio .....	63
Remote control .....	65
General .....	66
INlink (CEC-compatible) device .....	67

Specifications .....70  
Legal notices .....71  
One-year limited warranty - Insignia Televisions .....72

# CHILD SAFETY

## PROPER TELEVISION PLACEMENT MATTERS



### THE CONSUMER ELECTRONICS INDUSTRY CARES

- Manufacturers, retailers and the rest of the consumer electronics industry are committed to making home entertainment safe and enjoyable.
- As you enjoy your television, please note that all televisions - new and old - must be supported on proper stands or installed according to the manufacturer's recommendations. Televisions that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests, carts, etc., may fall over, resulting in injury.

### TUNE IN TO SAFETY

- **ALWAYS** follow the manufacturer's recommendations for the safe installation of your television.
- **ALWAYS** read and follow all instructions for proper use of your television.
- **NEVER** allow children to climb on or play on the television or the furniture on which the television is placed.
- **NEVER** place the television on furniture that can easily be used as steps, such as a chest of drawers.
- **ALWAYS** install the television where it cannot be pushed, pulled over or knocked down.
- **ALWAYS** route cords and cables connected to the television so that they cannot be tripped over, pulled or grabbed.

### WALL OR CEILING MOUNT YOUR TELEVISION

- **ALWAYS** contact your retailer about professional installation if you have any doubts about your ability to safely mount your television.
- **ALWAYS** use a mount that has been recommended by the television manufacturer and has a safety certification by an independent laboratory (such as UL, CSA, ETL).
- **ALWAYS** follow all instructions supplied by the television and mount manufacturers.
- **ALWAYS** make sure that the wall or ceiling where you are mounting the television is appropriate. Some mounts are not designed to be mounted to walls and ceilings with steel studs or cinder block construction. If you are unsure, contact a professional installer.
- Televisions can be heavy. A minimum of two people is required for a wall or ceiling mount installation.

### MOVING AN OLDER TELEVISION TO A NEW PLACE IN YOUR HOME

- Many new television buyers move their older CRT televisions into a secondary room after the purchase of a flat-panel television. Special care should be made in the placement of older CRT televisions.
- **ALWAYS** place your older CRT television on furniture that is sturdy and appropriate for its size and weight.
- **NEVER** place your older CRT television on a dresser where children may be tempted to use the drawers to climb.
- **ALWAYS** make sure your older CRT television does not hang over the edge of your furniture.

## Important Safety Instructions



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within your TV. This label is located on the back of your TV.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your TV.

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.



S3125A

- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15 The *wall plug* is the disconnecting device. The plug must remain readily operable.
- 16 Remote control batteries should not be exposed to excessive heat such as sunshine, fire, or the like.
- 17 The apparatus should not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, should be placed on the apparatus.
- 18 Your TV has four VESA mounting holes on the back. If you attach a wall-mount bracket or TV stand to the back of your TV, **the bracket or stand must be securely attached using to all four holes**. If you do not use all four mounting holes, your TV may fall and cause property damage or personal injury. See the documentation that came with your wall mount or TV stand for complete mounting instructions.

### WARNING

#### *Electric shock hazard*

To reduce the risk of fire or electric shock, do not remove any cover or expose the device to rain or moisture. No user-serviceable parts are inside. Refer servicing to qualified service technicians.

#### *Lightning*

For added protection for your device receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the power outlet and disconnect any antenna or cable system. This helps prevent property damage and personal injury from lightning and power line surges.

#### *Power lines*

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, take extreme care to keep from touching such power lines or circuits as contact with them might be fatal.

#### *Handling the LCD panel*

- Your TV's screen is made of glass. Do not drop your TV or hit, jolt, or press hard against the LCD panel. If the screen breaks, be careful of broken glass.
- If the LCD panel is broken, make absolutely sure that you do not touch the liquid in the panel. This may cause skin inflammation.
- If the liquid gets in your mouth, immediately gargle, rinse, and consult with your doctor. Also, if the liquid gets in your eyes or touches your skin, consult with your doctor after rinsing for at least 15 minutes or longer in clean water.



**Replacement parts**

When replacement parts are required, make sure that the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, personal injury, or other hazards.

**Safety check**

After completing any service or repair to this device, ask the service technician to perform routine safety checks to determine that your TV is in correct operating condition.

**Power source**

Operate your TV only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult an electrician or your local power company.

**Servicing**

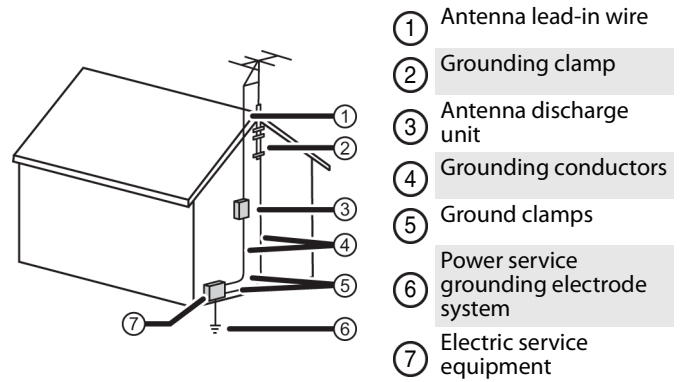
These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

**CAUTION****Damage requiring service**

- Unplug this TV from the power outlet and refer servicing to qualified service personnel under the following conditions:
- When the power supply cord or plug is damaged or frayed.
  - If liquid has been spilled or objects have fallen into your TV.
  - If your TV has been exposed to rain or water.
  - If your TV does not operate normally by following the operating instructions. Adjust only those controls covered by the operating instructions because incorrect adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore your TV to its normal operation.
  - If your TV has been dropped or damaged in any way.
  - When your TV exhibits a distinct change in performance.

**Outdoor antenna grounding**

If an outside antenna or cable system is connected to your TV, make sure that the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to correct grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of the antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- ① Antenna lead-in wire
- ② Grounding clamp
- ③ Antenna discharge unit
- ④ Grounding conductors
- ⑤ Ground clamps
- ⑥ Power service grounding electrode system
- ⑦ Electric service equipment

**Note to CATV system installer**

Article 820 of the National Electrical Code, ANSI/NFPA No. 40 provides guidance for correct grounding. Specifically, it states that the cable ground must be connected to the grounding system of the building as close to the point of cable entry as practical.

**Condensation**

Moisture will form on the TV if the TV is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, the TV's performance may be impaired. To prevent this, let the TV stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually. Condensation may also form during the summer if the TV is exposed to the breeze from an air conditioner. In such cases, change the location of the TV.

**Mobile telephone warning**

To avoid interference with your TV picture and sound, operating problems, or even damage, keep your cordless and cellular telephones away from the TV.

**End of life directives**

Your TV may contain materials that are regulated for environmental reasons. Your TV also contains materials that can be recycled and reused. To help protect the environment, contact your local authorities for information about disposal or recycling and about finding a recycler in your area before you dispose of your TV.

**Non-active pixels**

The LCD panel contains almost 3 million thin film transistors, which provide exceptionally sharp video quality. Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green, or red point. These non-active pixels do not adversely affect the performance of your TV, and are not considered defects.



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# Insignia 32" 720p 60Hz LED TV

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## Introduction

Congratulations on your purchase of a high-quality Insignia product. Your NS-32D220NA16 represents the state of the art in LED TV design and is designed for reliable and trouble-free performance.

## INlink

Enjoy the benefit of having HDMI CEC-compatible products plug and play! No setup is needed! CEC technology lets different devices discover and communicate with each other. (See page 38 for instructions on how to use INlink.)

## Game mode

Video games generally require adjustments to the TV picture settings to get the maximum experience. By simply pressing the **GAME** button on your remote control, your TV settings will automatically adjust for video games. It couldn't be easier.

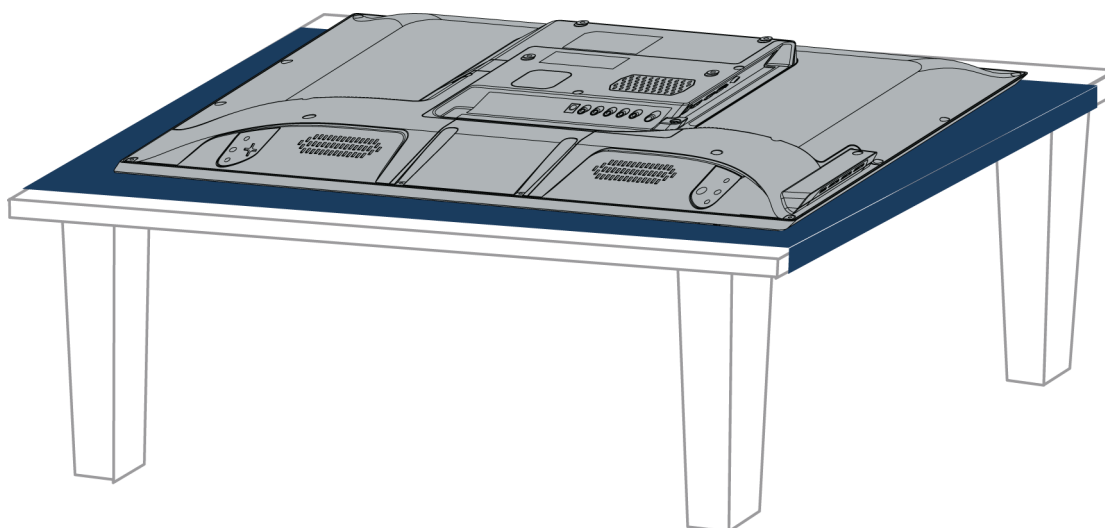
## Installing the stands or wall-mount bracket

### Notes

- If you plan to wall-mount your TV, do not install the stands.
- Store the stands and stand screws in case you decide to use the stands in the future.

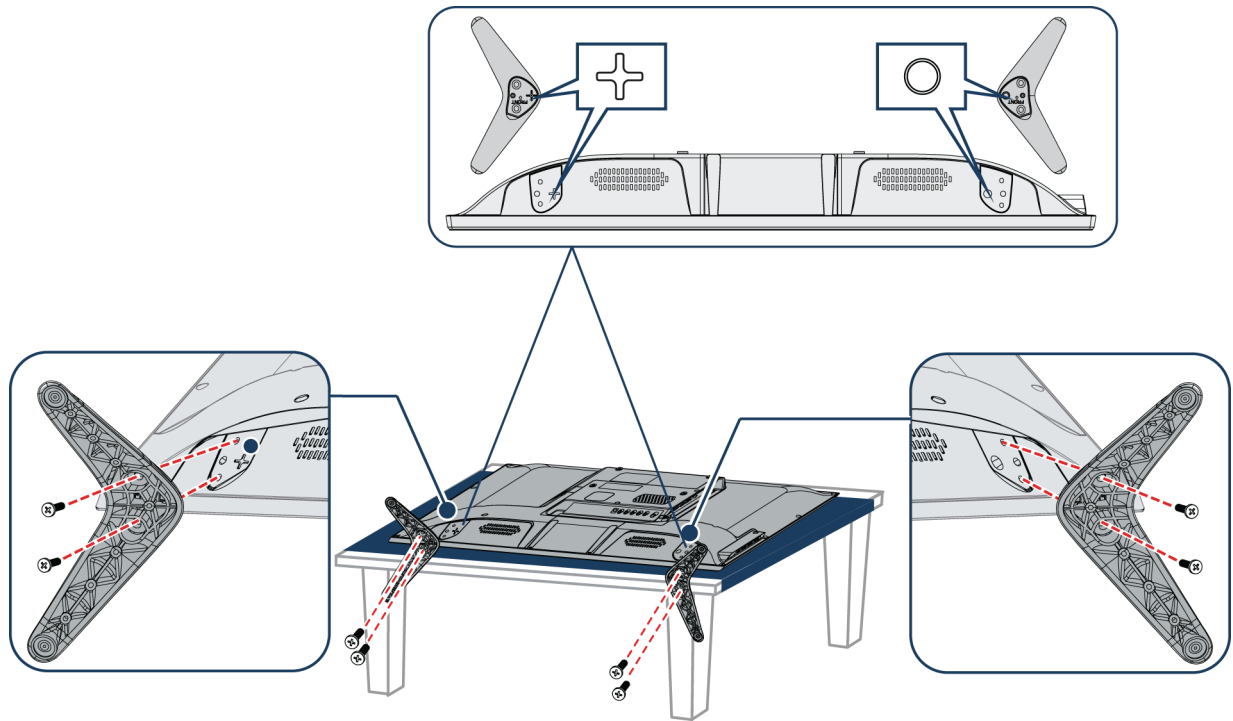
### Installing the stands

- 1 Carefully place your TV face-down on a cushioned, clean surface to protect the screen from damages and scratches.



- 2 With the stand legs pointing outward, align the raised area of the left stand with the indentation on the TV, then secure the stand to the TV with two of the provided screws. Repeat to attach the right stand.

Screw type	Screw length	# of screws
M4	15 mm	4

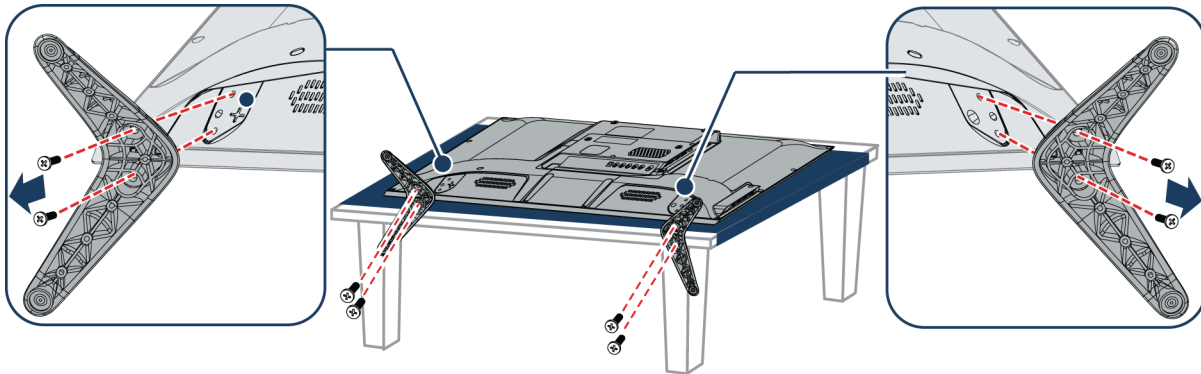


## Installing a wall-mount bracket

### Warning

- Your TV has four VESA mounting holes on the back. If you attach a wall-mount bracket to the back of your TV, **the bracket must be securely attached, using all four holes. If you do not use all four mounting holes**, your TV may fall and cause property damage or personal injury. See the documentation that came with your wall mount for complete mounting instructions.
- This TV is intended to be supported by a UL Listed wall mount bracket with suitable weight/load. (See "Miscellaneous" on page 71.)

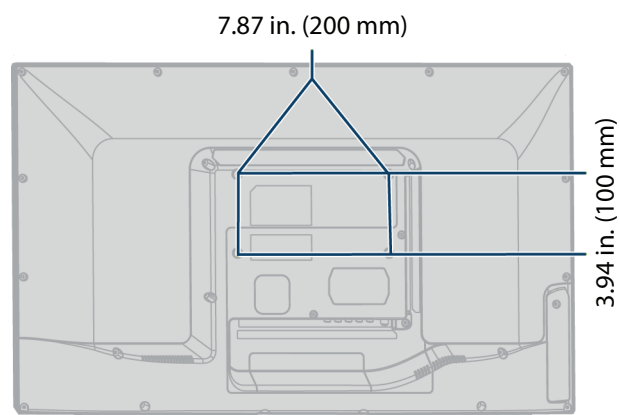
- Carefully place your TV face-down on a cushioned, clean surface to protect the screen from damages and scratches.
- If the TV stands are installed, remove the screws that secure the stands to the TV screen.



- Attach the wall-mount bracket to your TV using the mounting holes on the back of your TV. See the instructions that came with the wall-mount bracket for information about which screws to use and how to correctly hang your TV.

### Notes

- The length of the wall-mount screws vary depending on the wall-mount bracket you purchased. See the instructions that came with the wall-mount bracket for screw lengths.
- The mounting holes on the back of your TV take type M4 screws.

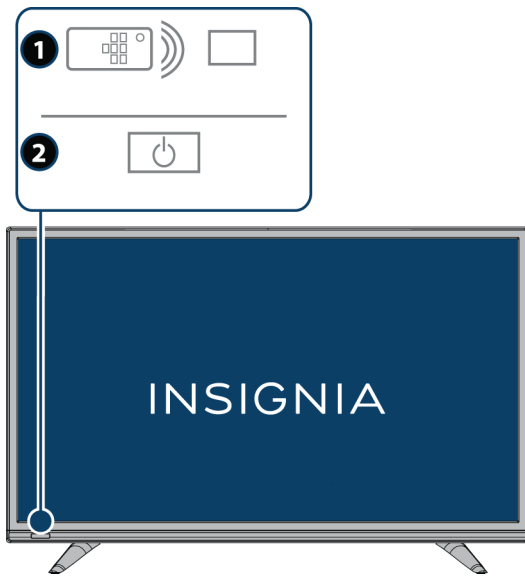


## TV components

### Package contents

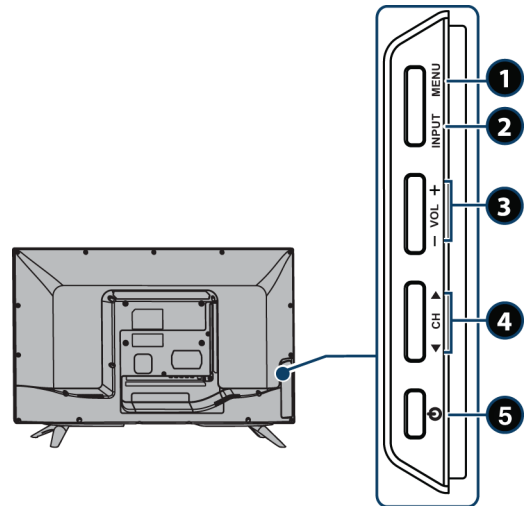
- 32" LED TV
- Remote control and batteries (2 AAA)
- TV stands (2)
- TV stand screws (M4 × 15 mm) (4)
- AC power adapter
- *Quick Setup Guide*
- *Important Information*

### Front



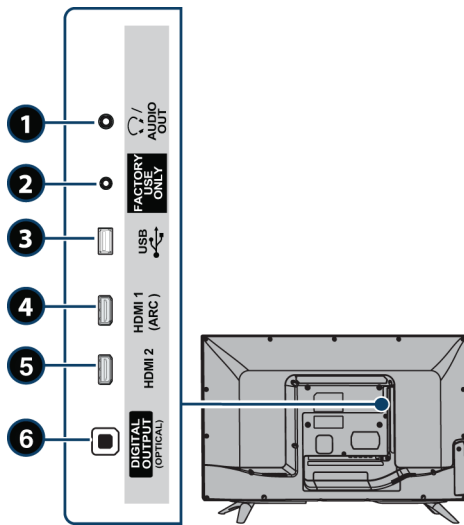
#	Item	Description
1	Remote control sensor	Receives signals from the remote control. Do not block.
2	Power indicator	Turns off when your TV is on. Lights red when your TV is off (standby mode).

### TV buttons



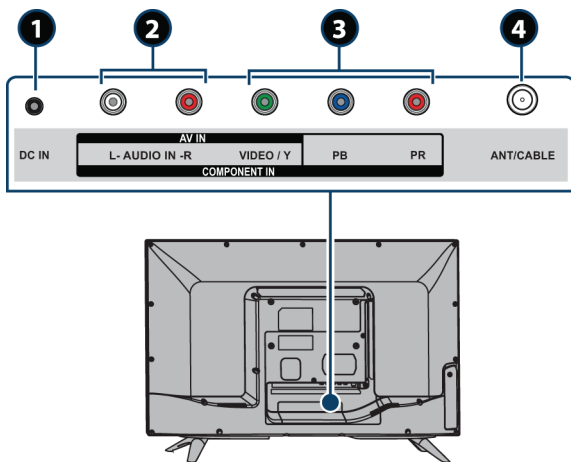
#	Item	Description
1	MENU	Press to open the on-screen menu. For more information, see <a href="#">"Navigating the menus"</a> on page 37.
2	INPUT	Press to open the <i>INPUT SOURCE</i> list, press <b>CH▼</b> or <b>CH▲</b> to select the video input source you want, then wait a few seconds. Your TV switches to the source you selected. For more information, see <a href="#">"Selecting the video input source"</a> on page 35. In menu mode, press to confirm selections.
3	VOL-/VOL+	Press to decrease or increase the volume. In TV menus, moves the highlight left or right.
4	CH▼/CH▲	Press to go to the previous or next channel in the channel list. For more information, see <a href="#">"Selecting a channel"</a> on page 37. In TV menus, moves the highlight down or up.
5	⏻ (power)	Press to turn your TV on or off (standby mode). <b>Warning:</b> When your TV is off, power still flows through it. To completely disconnect power, unplug the AC power adapter.

Side



#	Item	Description
1	🎧 / AUDIO OUT	Connect headphones, a sound bar, analog speaker system, or a home theater system to this jack to listen to TV audio through external speakers. For more information, see <a href="#">"Analog audio"</a> on page 28.
2	FACTORY USE ONLY	Do not plug anything into this jack.
3	USB	Connect a USB flash drive to this jack to view compatible JPEG picture files. For more information, see <a href="#">"Connecting a USB flash drive"</a> on page 25 and <a href="#">"Using a USB flash drive"</a> on page 41.
4	HDMI 1 (ARC)	Connect an HDMI device to this jack. For more information, see <a href="#">"HDMI (best)"</a> on page 13, 18, 21, or 24. OR Connect an ARC-enabled home theater receiver to this jack.
5	HDMI 2	Connect an HDMI device to this jack. For more information, see <a href="#">"HDMI (best)"</a> on page 13, 18, 21, or 24.
6	DIGITAL OUTPUT (OPTICAL)	Connect a sound bar, digital speaker system, or home theater system to this jack to listen to TV audio through external speakers. For more information, see <a href="#">"Digital audio"</a> on page 27.

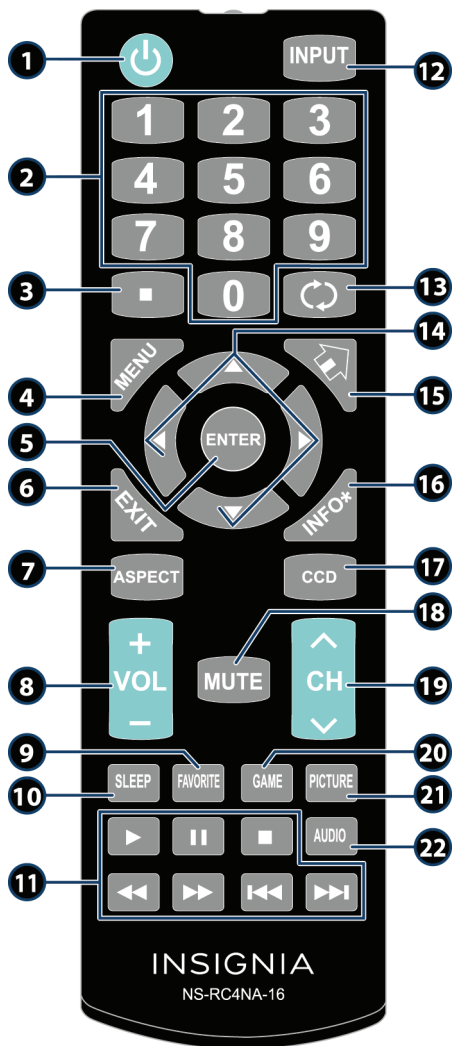
## Back



#	Item	Description
1	DC IN	Plug the AC power adapter into this connector.
2	L and R AUDIO IN	<p>Connect the audio for a component video device to these jacks. For more information, see <a href="#">“Component video (better)”</a> on page 14, 19, or 22.</p> <p>OR</p> <p>Connect the audio for an AV (composite video) device to these jacks. For more information, see <a href="#">“AV (composite video) (good)”</a> on page 15, 20, or 23.</p>
3	<p>VIDEO / Y, PB, PR</p> <p>OR</p> <p>VIDEO / Y</p>	<p>The component video and AV (composite video) jacks are shared. You can connect only one component video or AV device at a time.</p> <p>Connect the video for a component video device to the <b>VIDEO / Y, Pb,</b> and <b>PR</b> jacks. For more information, see <a href="#">“Component video (better)”</a> on page 14, 19, or 22.</p> <p>OR</p> <p>Connect the video for an AV (composite video) device to the <b>VIDEO / Y</b> jack. For more information, see <a href="#">“AV (composite video) (good)”</a> on page 15, 20, or 23.</p>
4	ANT / CABLE	Connect an antenna or cable TV to this jack. For more information, see <a href="#">“Coaxial (good)”</a> on page 16 or <a href="#">“Connecting an antenna or cable TV (no box)”</a> on page 17.



Remote control



#	Button	Press to...
10	SLEEP	Set the sleep timer. You can select <b>Off, 5, 10, 15, 30, 60, 90, 120, 180, or 240</b> minutes. See <a href="#">“Setting the sleep timer”</a> on page 58.
11	Media Controls	<b>INlink</b> —Control INlink-compatible (HDMI CEC) devices. See <a href="#">“Using INlink”</a> on page 38. <b>USB</b> —Control a photo slideshow. See <a href="#">“Viewing photos in a slideshow”</a> on page 43.
12	INPUT	Open the <i>INPUT SOURCE</i> list. Press <b>▲</b> or <b>▼</b> to select the video input source, then press <b>ENTER</b> . See <a href="#">“Selecting the video input source”</a> on page 35.
13	(return)	Return to the previous channel.
14	▲▼◀▶	<b>TV menus</b> —Navigate in on-screen TV menus and to adjust settings. <b>USB</b> —Control a photo slideshow.
15	Home	Open the on-screen menu.
16	INFO*	Display TV status information, such as the channel number, channel name (if available), or signal source. See <a href="#">“Viewing channel information”</a> on page 37.
17	CCD	Turn closed captioning on or off. You can select <b>CC Off, CC On, or CC On when mute</b> . See <a href="#">“Turning closed captioning on or off”</a> on page 55.
18	MUTE	Mute or un-mute the sound.
19	CH ▲/CH ▼	Change TV channels. See <a href="#">“Selecting a channel”</a> on page 37.
20	GAME	Change the picture mode to <b>Game</b> mode.
21	PICTURE	Select the picture mode. You can select <b>Vivid, Standard, Energy Savings, Movie, Game, or Custom</b> . See the <b>Picture Mode</b> option in <a href="#">“Adjusting the TV picture”</a> on page 43.
22	AUDIO	Select the sound mode. You can select <b>Standard, Theater, Music, News, or Custom</b> . See the <b>Sound Mode</b> option in <a href="#">“Adjusting sound settings”</a> on page 45.

#	Button	Press to...
1	Power	Turn your TV on or off (standby mode). <b>Warning:</b> When your TV is off, power still flows through it. To disconnect power, unplug the AC power adapter.
2	Numbers	Enter channel numbers and the parental control password.
3	■	Enter a digital sub-channel number. See <a href="#">“Selecting a channel”</a> on page 37.
4	MENU	Open the on-screen menu.
5	ENTER	Confirm selections or changes in on-screen TV menus.
6	EXIT	Close the on-screen TV menu.
7	ASPECT	Change how the picture looks on the screen (aspect ratio). See the <b>Aspect Ratio</b> option in <a href="#">“Adjusting the TV picture”</a> on page 43.
8	VOL+/-	Increase or decrease the volume.
9	FAVORITE	Open the <i>Favorite</i> channel list. See <a href="#">“Setting up a favorite channel list”</a> on page 49 and <a href="#">“Viewing a favorite channel”</a> on page 50.

# What connection should I use?

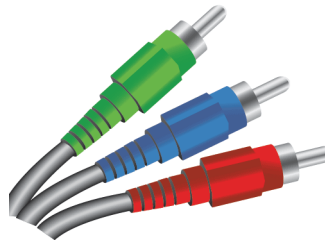
Your TV has several connection types for connecting devices to your TV. For the best video quality, you should connect a device to the best available connection. Use the following tables to identify cables:

Video quality	Connection type and jack	Cable connector
---------------	--------------------------	-----------------

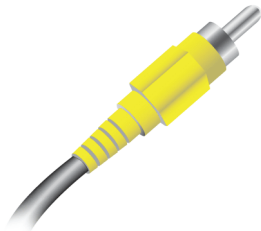
Best (use this if your devices have HDMI)



Better than composite or coaxial



Better than coaxial



Good

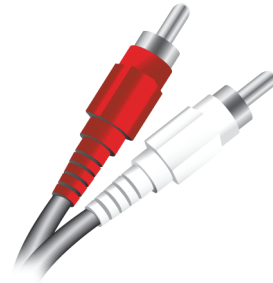


Connection type and jacks	Cable connectors
---------------------------	------------------

Optical digital audio



Analog audio input



3.5mm analog audio output



### Cautions

- Check the jacks for position and type before making any connections.
- Loose connections can result in image or color problems. Make sure that all connections are tight and secure.
- The external audio/video equipment shown may be different from your equipment. If you have questions, refer to the documentation that came with your equipment.
- Always unplug the AC power adapter when connecting external equipment.

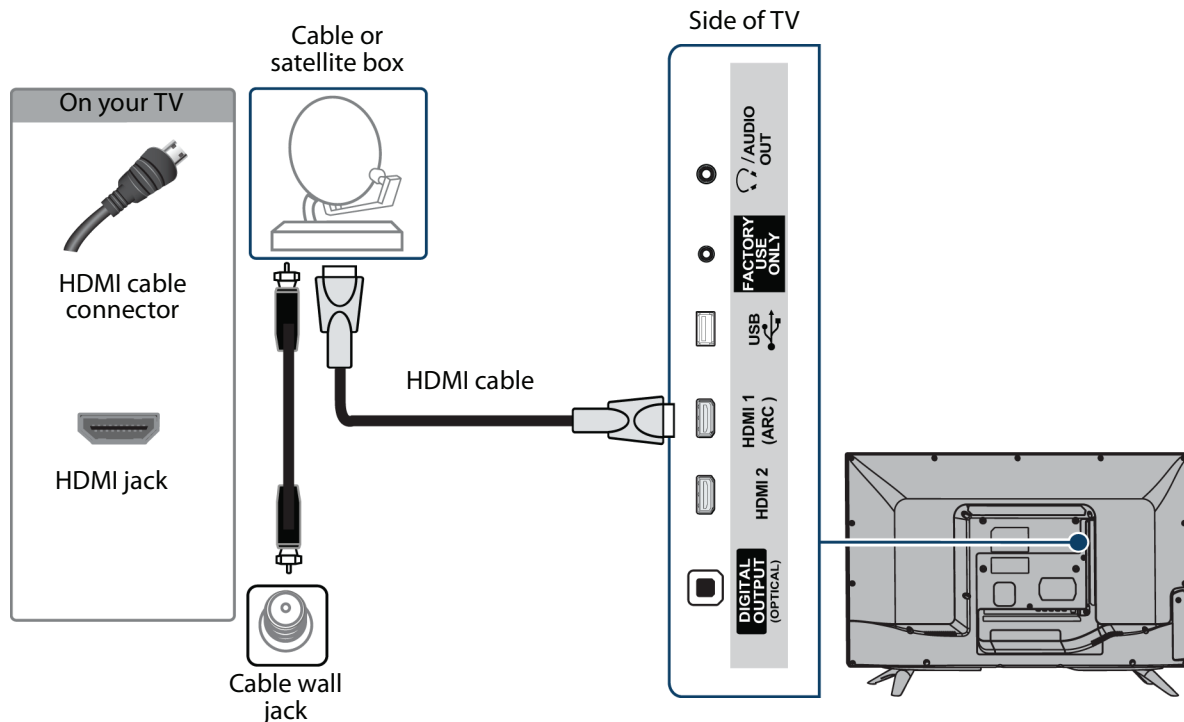
## Connecting a cable or satellite box

Many cable or satellite TV boxes have more than one connection type. To get the best video, you should use the best connection type available. For more information, see ["What connection should I use?"](#) on page 12.

You can connect a cable or satellite box using:

- HDMI (best)
- Component video (better)
- AV (composite video) (good)
- Coaxial (good)

### HDMI (best)



- 1 Make sure that your TV's AC power adapter is unplugged and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect an HDMI cable (not provided) to one of the **HDMI** jacks on the side of your TV and to the **HDMI OUT** jack on the cable or satellite box.
- 4 Plug your TV's AC power adapter into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 5 Press **INPUT** to open the *INPUT SOURCE* list.
- 6 Press **▲** or **▼** to highlight **HDMI1** or **HDMI2**, then press **ENTER**.

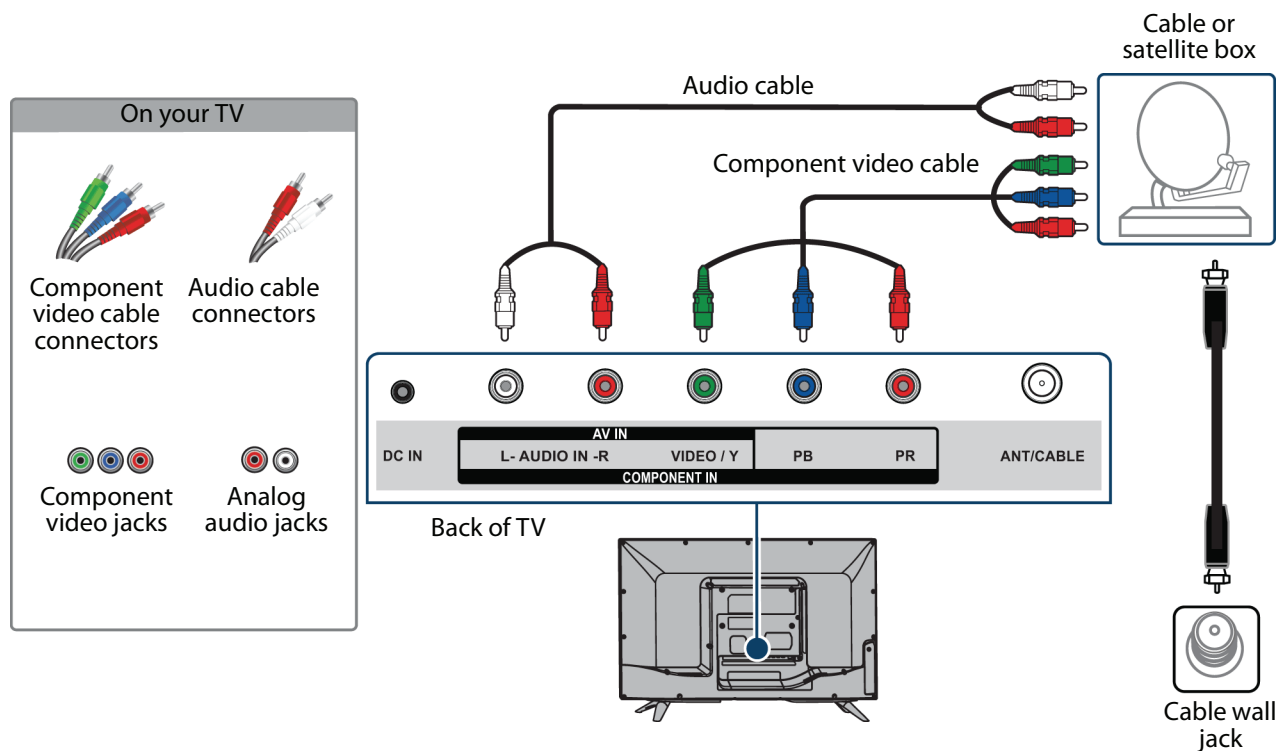
#### Note

An HDMI cable carries both audio and video. You do not need to use any audio cables.

## Component video (better)

### Note

Cables are often color-coded to match color-coded jacks.



- 1 Make sure that your TV's AC power adapter is unplugged and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect a component video cable (not provided) to the **VIDEO / Y, PB, and PR** jacks on the back of your TV and the component video out jacks on the cable or satellite box.
- 4 Connect an audio cable (not provided) to the **L and R AUDIO IN** jacks on the back of your TV and to the audio out jacks on the cable or satellite TV box.

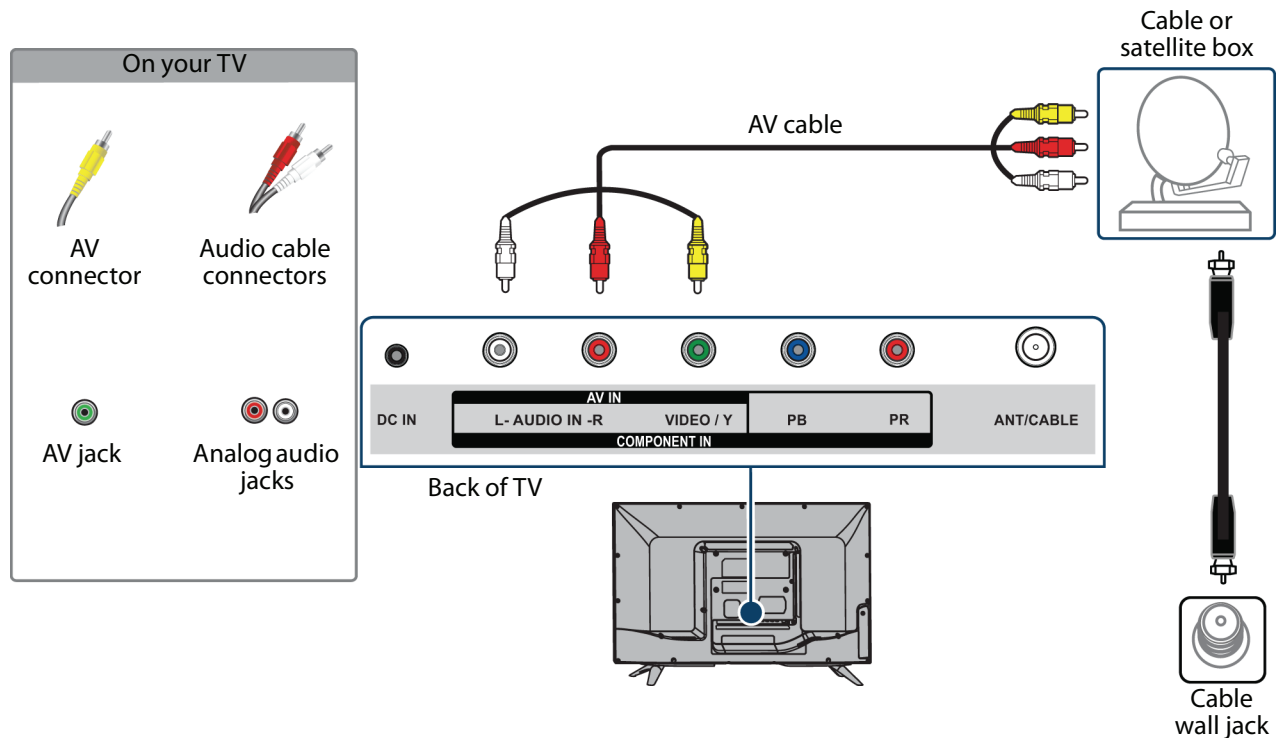
### Notes

- The **VIDEO / Y, PB, and PR** video jacks (used to connect a component device) share the **L and R AUDIO IN** jacks with the **VIDEO / Y** jack (used to connect an AV (composite video) device).
- When you connect the audio using the **L and R AUDIO IN** jacks, the audio output is analog.

- 5 Plug your TV's AC power adapter into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 6 Press **INPUT** to open the **INPUT SOURCE** list.
- 7 Press **▲** or **▼** to highlight **Component/AV**, then press **ENTER**.

**AV (composite video) (good)****Notes**

- Cables are often color-coded to match color-coded jacks.
- The yellow video connector on the AV cable connects to the green **VIDEO / Y** jack.



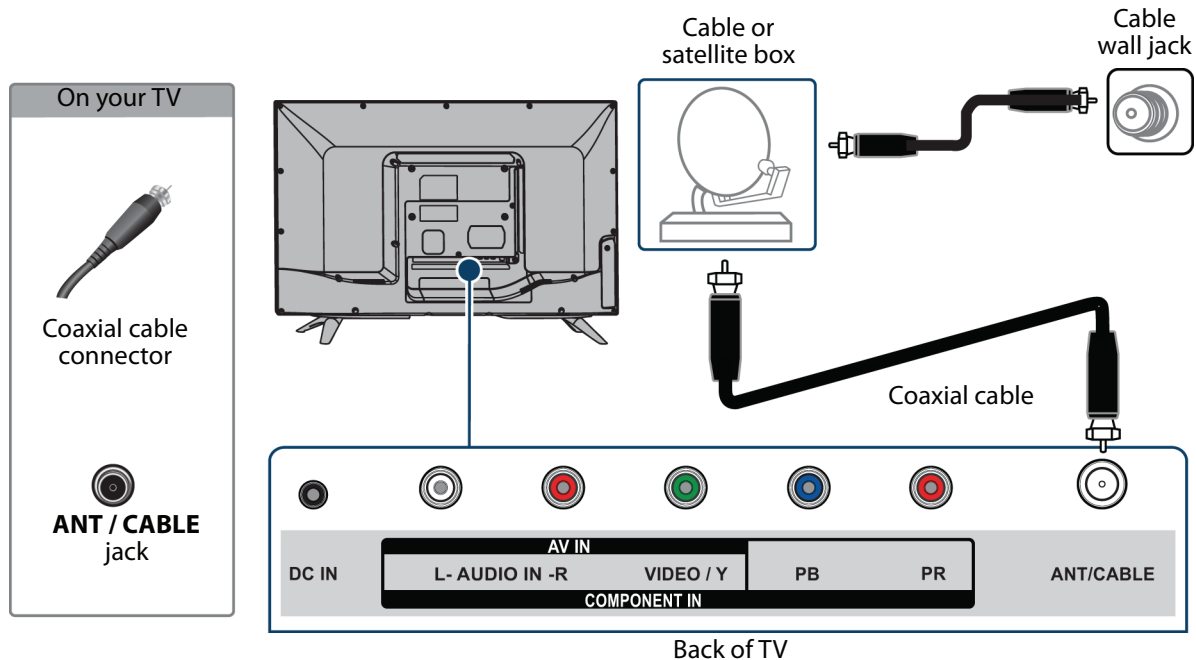
- 1 Make sure that your TV's AC power adapter is unplugged and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect an AV cable (not provided) to the green **VIDEO / Y** jack and **L** and **R AUDIO IN** jacks on the back of your TV and to the AV (composite video) and audio out jacks on the cable or satellite box.

**Notes**

- The **VIDEO / Y**, **PB**, and **PR** video jacks (used to connect a component device) share the **L** and **R AUDIO IN** jacks with the **VIDEO / Y** jack (used to connect an AV (composite video) device).
- When you connect the audio using the **L** and **R AUDIO IN** jacks, the audio output is analog.

- 4 Plug your TV's AC power adapter into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 5 Press **INPUT** to open the **INPUT SOURCE** list.
- 6 Press **▲** or **▼** to highlight **Component/AV**, then press **ENTER**.

## Coaxial (good)

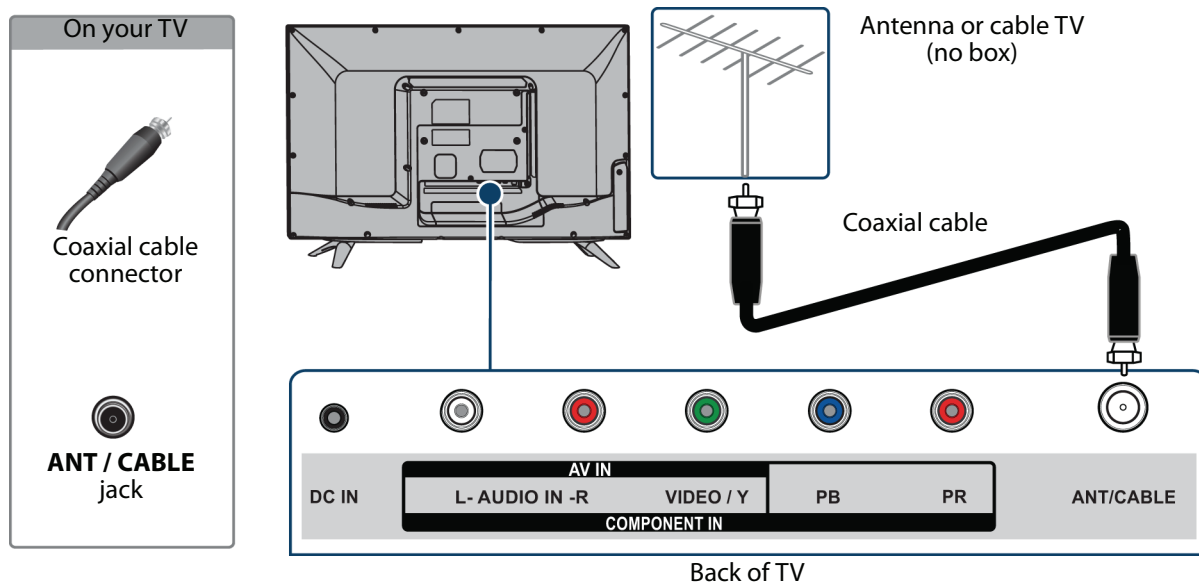


- 1 Make sure that your TV's AC power adapter is unplugged and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect a coaxial cable (not provided) to the **ANT / CABLE** jack on the back of your TV and to the coaxial out jack on the cable or satellite box.
- 4 Plug your TV's AC power adapter into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 5 Press **INPUT** to open the *INPUT SOURCE* list.
- 6 Press **▲** or **▼** to highlight **TV**, then press **ENTER**.
- 7 If you cannot tune to channels you know exist, scan for channels. See "[Automatically scanning for channels](#)" on page 47.

### Notes

- Use a coaxial cable to eliminate interference and noise from radio waves.
- Do not bundle the coaxial cable with the AC power adapter or other cables.

## Connecting an antenna or cable TV (no box)



- 1 Make sure that your TV's AC power adapter is unplugged and all connected equipment is turned off.
- 2 Connect a coaxial cable (not provided) to the **ANT / CABLE** jack on the back of your TV and to the antenna or cable TV wall jack.
- 3 Plug your TV's AC power adapter into a power outlet, then turn on your TV.
- 4 Press **INPUT** to open the *INPUT SOURCE* list.
- 5 Press **▲** or **▼** to highlight **TV**, then press **ENTER**.
- 6 If you cannot tune to channels you know exist, scan for channels. See "[Automatically scanning for channels](#)" on page 47.

### Notes

- Use a coaxial cable to eliminate interference and noise from radio waves.
- Do not bundle the coaxial cable with the AC power adapter or other cables.
- If the antenna is not installed correctly, contact qualified service personnel to correct the problem.
- If the signal level for a channel is weak, the picture may be distorted. Adjust the antenna or use a highly directional outdoor or set-top antenna with a built-in amplifier.
- If the picture quality is good on some channels and poor on others, the problem may be caused by a poor or weak signal from the broadcaster or cable TV provider.
- If you connect to cable TV without a set-top box and experience poor picture quality, you may need to install a set-top box to improve signal reception and picture quality. Contact your cable TV provider about upgrading to a set-top box.
- Many high-definition (HD) channels upscale standard-definition (SD) content. The picture displayed on your TV is still displayed as SD, thus the picture quality will not be as clear or crisp as it would be if the content was originally recorded in HD.



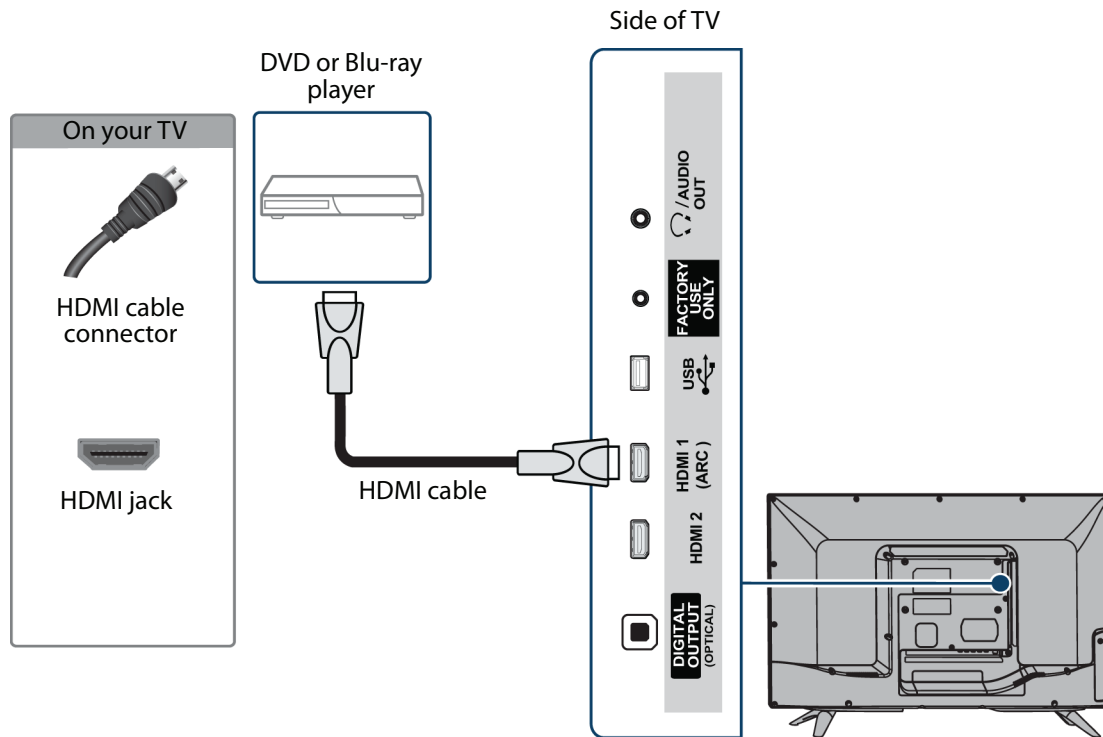
## Connecting a DVD or Blu-ray player

Many DVD or Blu-ray players have more than one connection type. To get the best video, you should use the best connection type available. For more information, see "What connection should I use?" on page 12.

You can connect a DVD or Blu-ray player using:

- HDMI (best)
- Component video (better)
- AV (composite video) (good)

### HDMI (best)



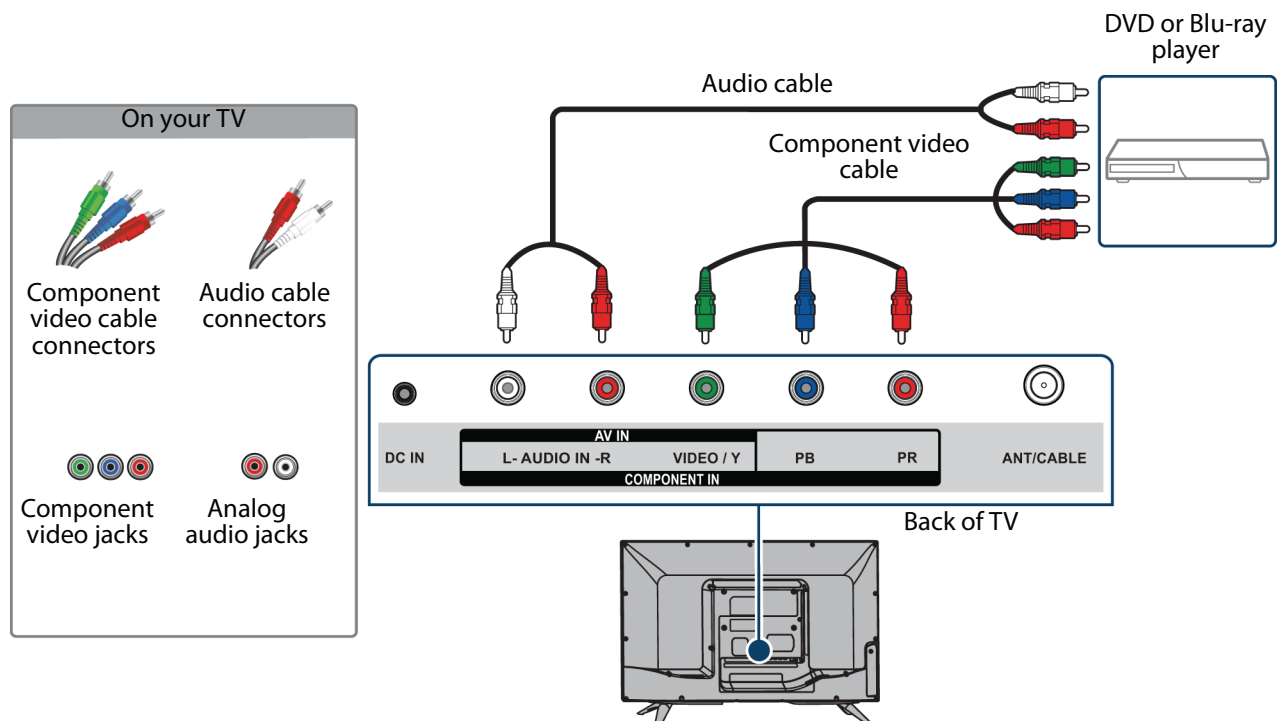
- 1 Make sure that your TV's AC power adapter is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect an HDMI cable (not provided) to one of the **HDMI** jacks on the side of your TV and to the **HDMI OUT** jack on the DVD or Blu-ray player.
- 3 Plug your TV's AC power adapter into a power outlet, then turn on your TV and DVD or Blu-ray player.
- 4 Press **INPUT** to open the *INPUT SOURCE* list.
- 5 Press **▲** or **▼** to highlight **HDMI1** or **HDMI2**, then press **ENTER**.

#### Note

An HDMI cable carries both audio and video. You do not need to use any audio cables.

**Component video (better)****Note**

Cables are often color-coded to match color-coded jacks.



- 1 Make sure that your TV's AC power adapter is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect a component video cable (not provided) to the **VIDEO / Y**, **PB**, and **PR** jacks on the back of your TV and to the **COMPONENT OUT** jacks on the DVD or Blu-ray player.
- 3 Connect an audio cable (not provided) to the **L** and **R AUDIO IN** jacks on the back of your TV and to the **L** and **R AUDIO OUT** jacks on the DVD or Blu-ray player.

**Notes**

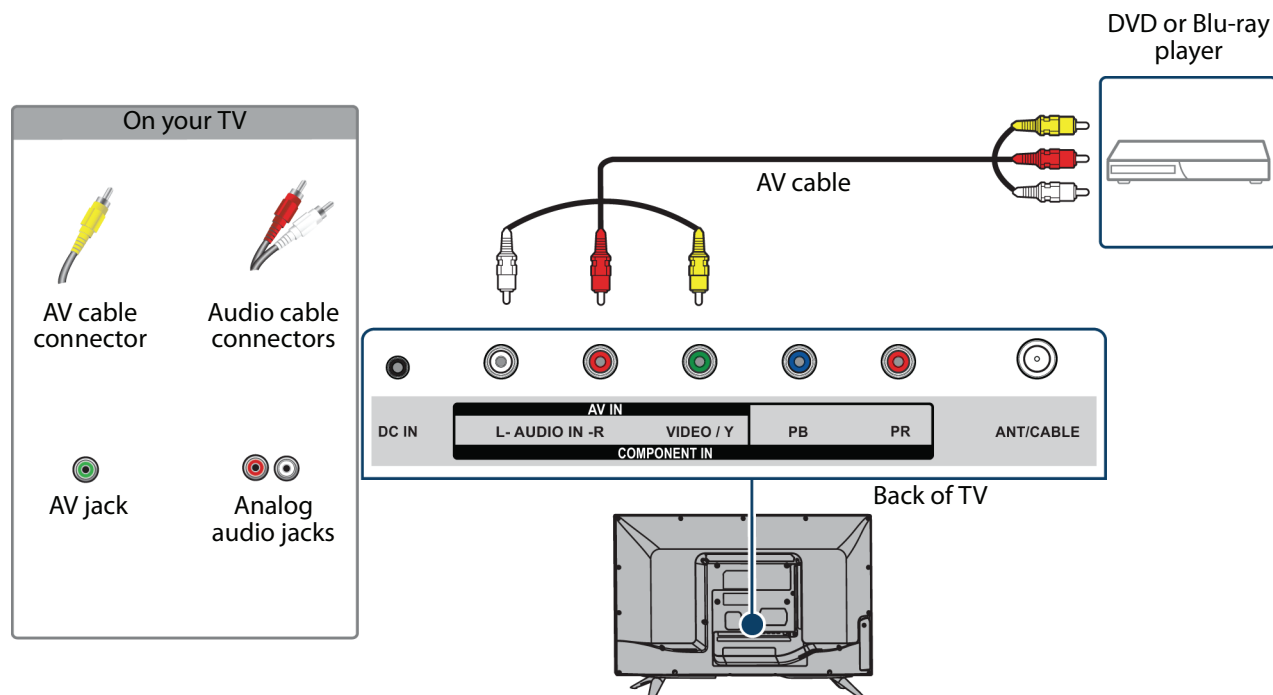
- The **VIDEO / Y**, **PB**, and **PR** video jacks (used to connect a component device) share the **L** and **R AUDIO IN** jacks with the **VIDEO / Y** jack (used to connect an AV (composite video) device).
- When you connect the audio using the **L** and **R AUDIO IN** jacks, the audio output is analog.

- 4 Plug your TV's AC power adapter into a power outlet, then turn on your TV and DVD or Blu-ray player.
- 5 Press **INPUT** to open the *INPUT SOURCE* list.
- 6 Press **▲** or **▼** to highlight **Component/AV**, then press **ENTER**.

## AV (composite video) (good)

### Notes

- Cables are often color-coded to match color-coded jacks.
- The yellow video connector on the AV cable connects to the green **VIDEO / Y** jack.



- 1 Make sure that your TV's AC power adapter is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect an AV cable (not provided) to the green **VIDEO / Y** jack and **L** and **R AUDIO IN** jacks on the back of your TV and to the **AV OUT** jacks on the DVD or Blu-ray player.

### Notes

- The **VIDEO / Y**, **PB**, and **PR** video jacks (used to connect a component device) share the **L** and **R AUDIO IN** jacks with the **VIDEO / Y** jack (used to connect an AV (composite video) device).
- When you connect the audio using the **L** and **R AUDIO IN** jacks, the audio output is analog.

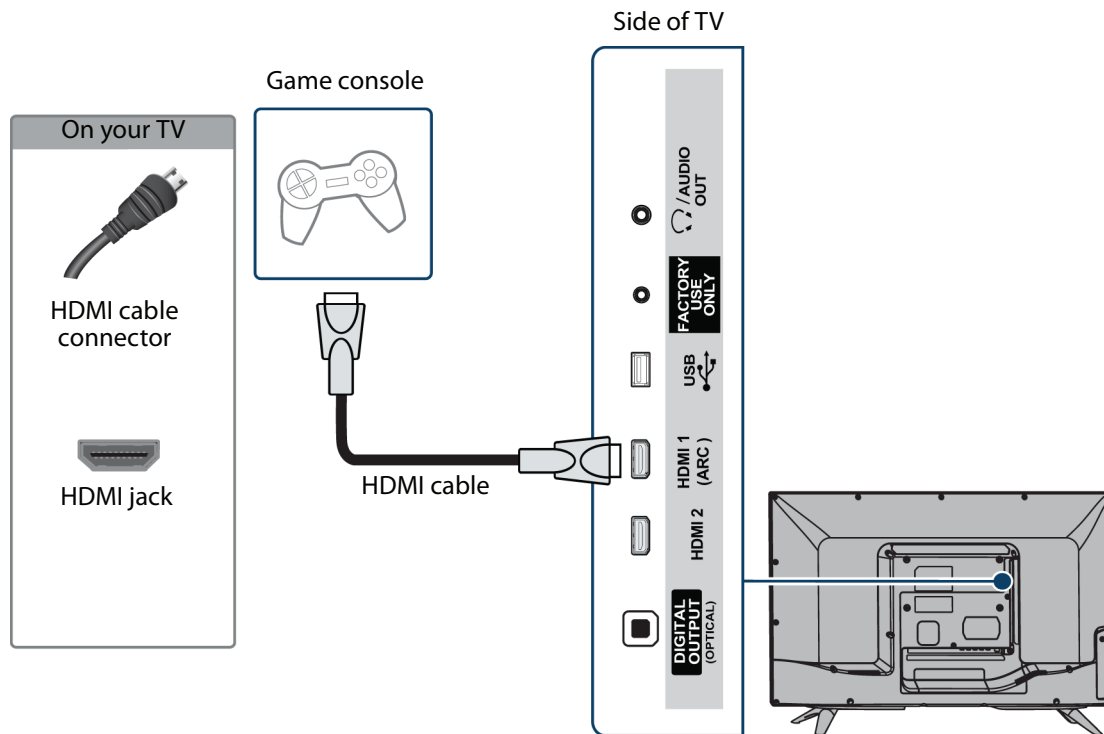
- 3 Plug your TV's AC power adapter into a power outlet, then turn on your TV.
- 4 Turn on the DVD or Blu-ray player, then set it to the correct output mode. For more information, see the documentation that came with the player.
- 5 Press **INPUT** to open the **INPUT SOURCE** list.
- 6 Press **▲** or **▼** to highlight **Component/AV**, then press **ENTER**.

## Connecting a game console

You can connect a game console using:

- HDMI (best)
- Component video (better)
- AV (composite video) (good)

### HDMI (best)



- 1 Make sure that your TV's AC power adapter is unplugged and the game console is turned off.
- 2 Connect an HDMI cable (not provided) to one of the **HDMI** jacks on the side of your TV and to the **HDMI OUT** jack on the game console.
- 3 Plug your TV's AC power adapter into a power outlet, then turn on your TV.
- 4 Turn on the game console, then set it to the correct output mode. For more information, see the documentation that came with the console.
- 5 Press **INPUT** to open the *INPUT SOURCE* list.
- 6 Press **▲** or **▼** to highlight **HDMI1** or **HDMI2**, then press **ENTER**.

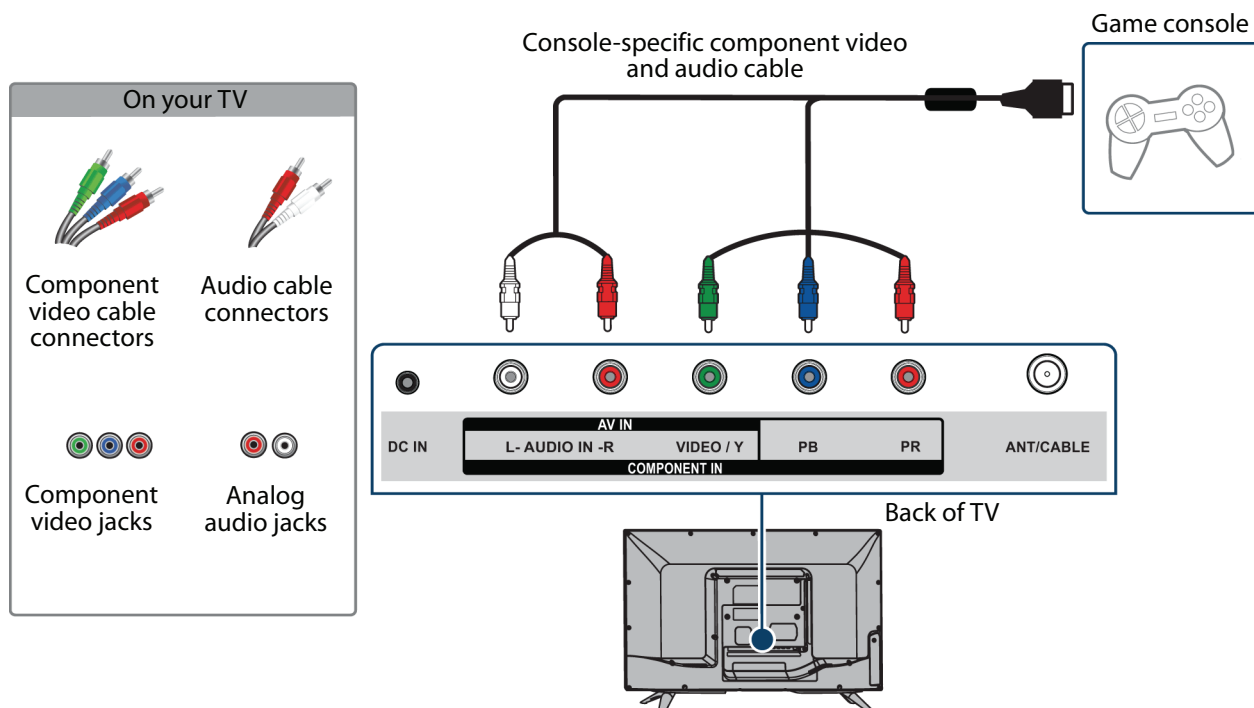
#### Note

An HDMI cable carries both audio and video. You do not need to use any audio cables.

## Component video (better)

### Note

Cables are often color-coded to match color-coded jacks.



- 1 Make sure that your TV's AC power adapter is unplugged and the game console is turned off.
- 2 Connect the video and audio connectors on the component video cable (not provided) to the **VIDEO / Y, PB, and PR** video jacks and **L and R AUDIO IN** jacks on the back of your TV and to the component jack(s) on the game console.

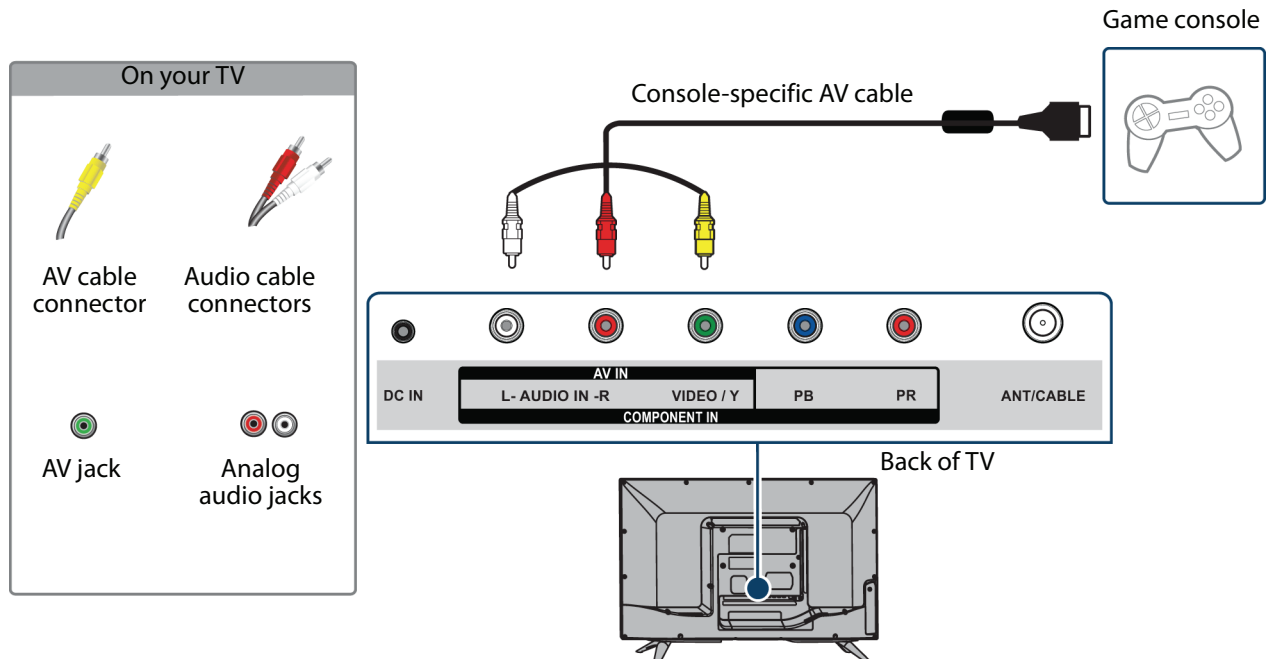
### Note

- Your game console may require a special component video cable. See the documentation that came with your game console or check the manufacturer's website.
- The **VIDEO / Y, PB, and PR** video jacks (used to connect a component device) share the **L and R AUDIO IN** jacks with the **VIDEO / Y** jack (used to connect an AV (composite video) device).
- When you connect the audio using the **L and R AUDIO IN** jacks, the audio output is analog.

- 3 Plug your TV's AC power adapter into a power outlet, then turn on your TV.
- 4 Turn on the game console, then set it to the correct output mode. For more information, see the documentation that came with the console.
- 5 Press **INPUT** to open the *INPUT SOURCE* list.
- 6 Press **▲** or **▼** to highlight **Component/AV**, then press **ENTER**.

**AV (composite video) (good)****Notes**

- Cables are often color-coded to match color-coded jacks.
- The yellow video connector on the AV cable connects to the green **VIDEO / Y** jack.



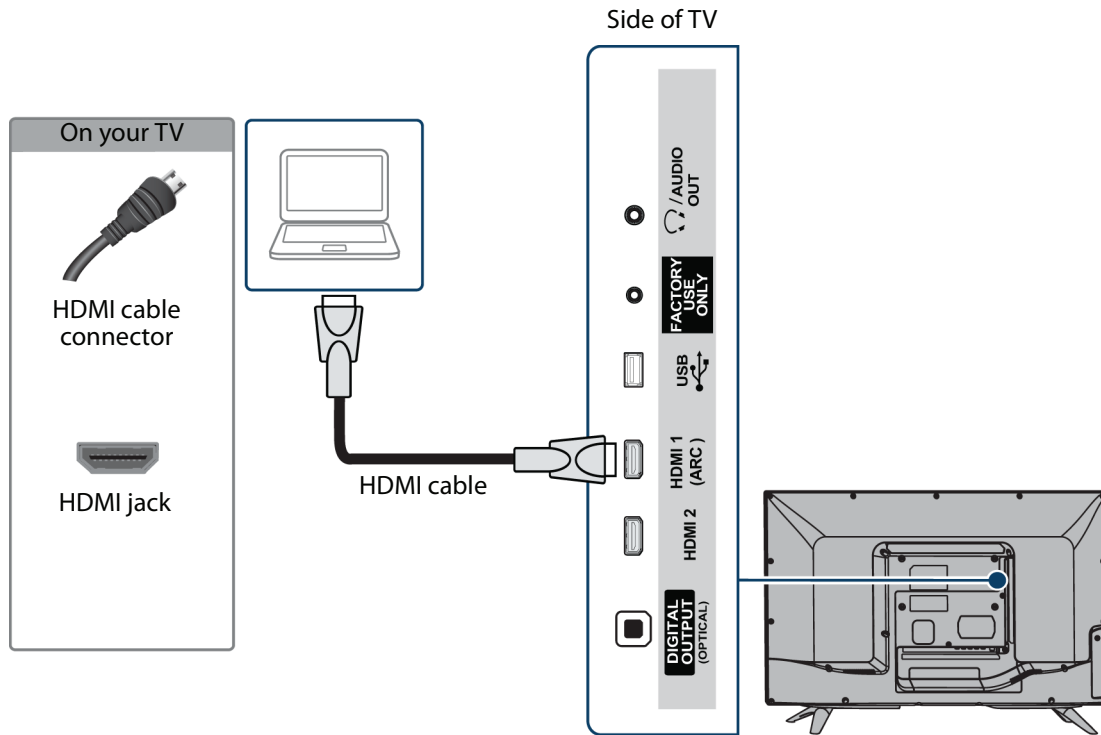
- 1 Make sure that your TV's AC power adapter is unplugged and the game console is turned off.
- 2 Connect the video and audio connectors on the game console's AV cable (not provided) to the green **VIDEO / Y** jack and **L** and **R AUDIO** jacks on the back of your TV and to the composite jack(s) on the game console.

**Note**

- Most game consoles come with a special AV (composite video) cable. See the documentation that came with your game console or check the manufacturer's Web site.
- The **VIDEO / Y**, **PB**, and **PR** video jacks (used to connect a component device) share the **L** and **R AUDIO IN** jacks with the **VIDEO / Y** jack (used to connect an AV (composite video) device).
- When you connect the audio using the **L** and **R AUDIO IN** jacks, the audio output is analog.

- 3 Plug your TV's AC power adapter into a power outlet, then turn on your TV.
- 4 Turn on the game console, then set it to the correct output mode. For more information, see the documentation that came with the console.
- 5 Press **INPUT** to open the **INPUT SOURCE** list.
- 6 Press **▲** or **▼** to highlight **Component/AV**, then press **ENTER**.

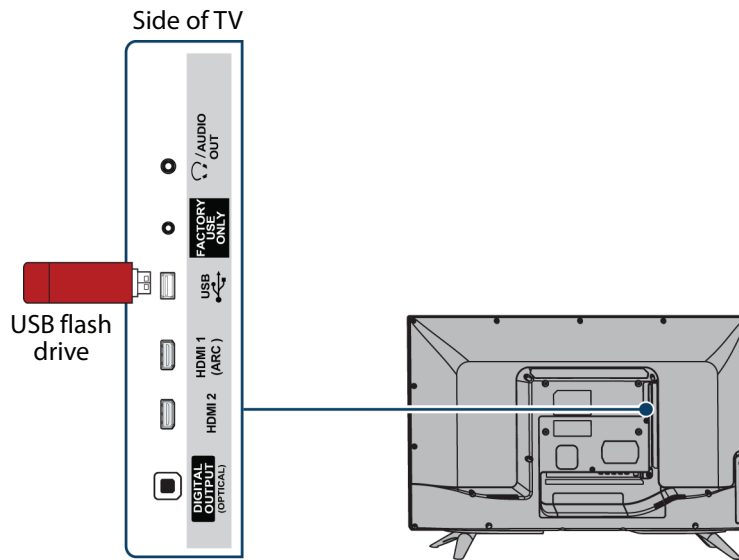
## Connecting a computer



- 1 Make sure that your TV's AC power adapter is unplugged and the computer is turned off.
- 2 Connect an HDMI cable (not provided) to one of the **HDMI** jacks on the side of your TV and to the **HDMI OUT** jack on the computer.
- 3 Plug your TV's AC power adapter into a power outlet, then turn on your TV and the computer.
- 4 Press **INPUT** to open the *INPUT SOURCE* list.
- 5 Press **▲** or **▼** to highlight **HDMI1** or **HDMI2**, then press **ENTER**.
- 6 Adjust the display properties on the computer, if necessary.



## Connecting a USB flash drive



- 1 Plug a USB flash drive into the **USB** port on the side of your TV.

### Caution

Do not remove the USB flash drive or turn off the TV while using the USB flash drive. You may lose data or damage the USB flash drive.

- 2 If your TV is turned on when you connect the USB flash drive, press **▲** or **▼** to select **Yes** in the message that appears. The *Photos* menu opens.

OR

If you switch to a different video input source after you plug in the USB flash drive and want to switch back to the drive, press **INPUT** to open the *INPUT SOURCE* list, press **▲** or **▼** to select **USB(Photos)**, then press **ENTER**. The *Photos* menu opens.

### Note

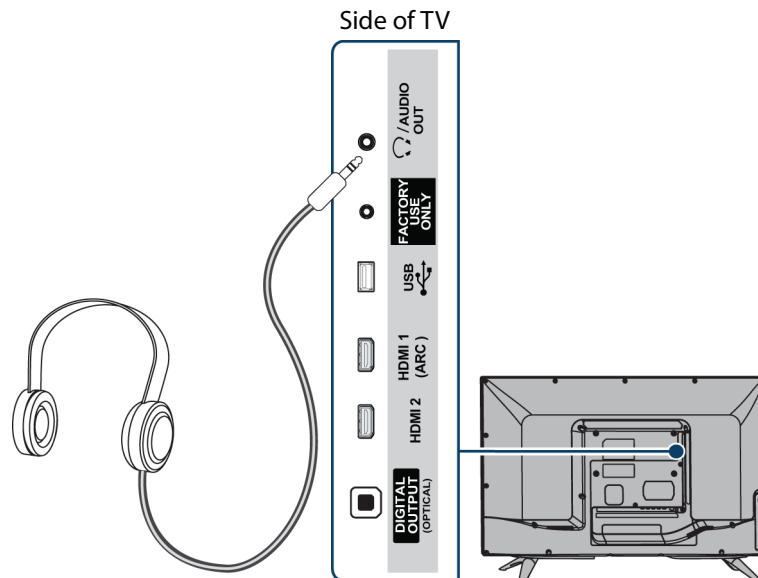
The **Photos** viewer only supports JPEG format images (with ".jpg" file extensions) and not all JPEG files are compatible with your TV. For more information, see "[Using a USB flash drive](#)" on page 41.

## Connecting headphones

When you connect headphones, the TV speakers are muted.


### Warning

Loud noise can damage your hearing. When using headphones, use the lowest volume setting on your headphones that still lets you hear the sound.



- 1 Connect the headphones to the  / **AUDIO OUT** jack on the side of your TV.
- 2 In the screen that opens, press  or  to highlight **Headphones/Audio Out Variable**, then press **ENTER**. For more information, see “[Selecting the audio out mode](#)” on page 46.

### Notes

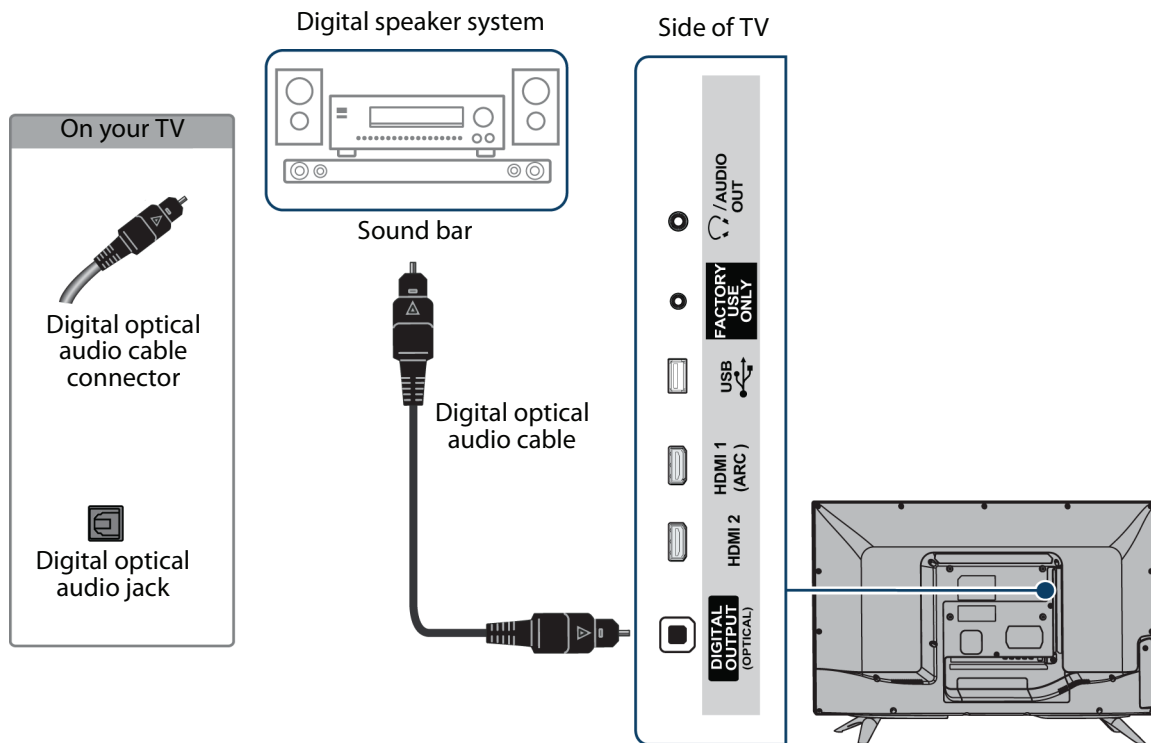
- If you connect headphones when your TV is turned off, then you turn on your TV, the TV speakers are muted and the audio plays through the headphones.
- You can also connect a home theater system, sound bar, or external speaker system to the  / **AUDIO OUT** jack.

## Connecting external speakers or a sound bar

You can connect external speakers or a sound bar to the digital audio jack using:

- Digital audio
- Analog audio

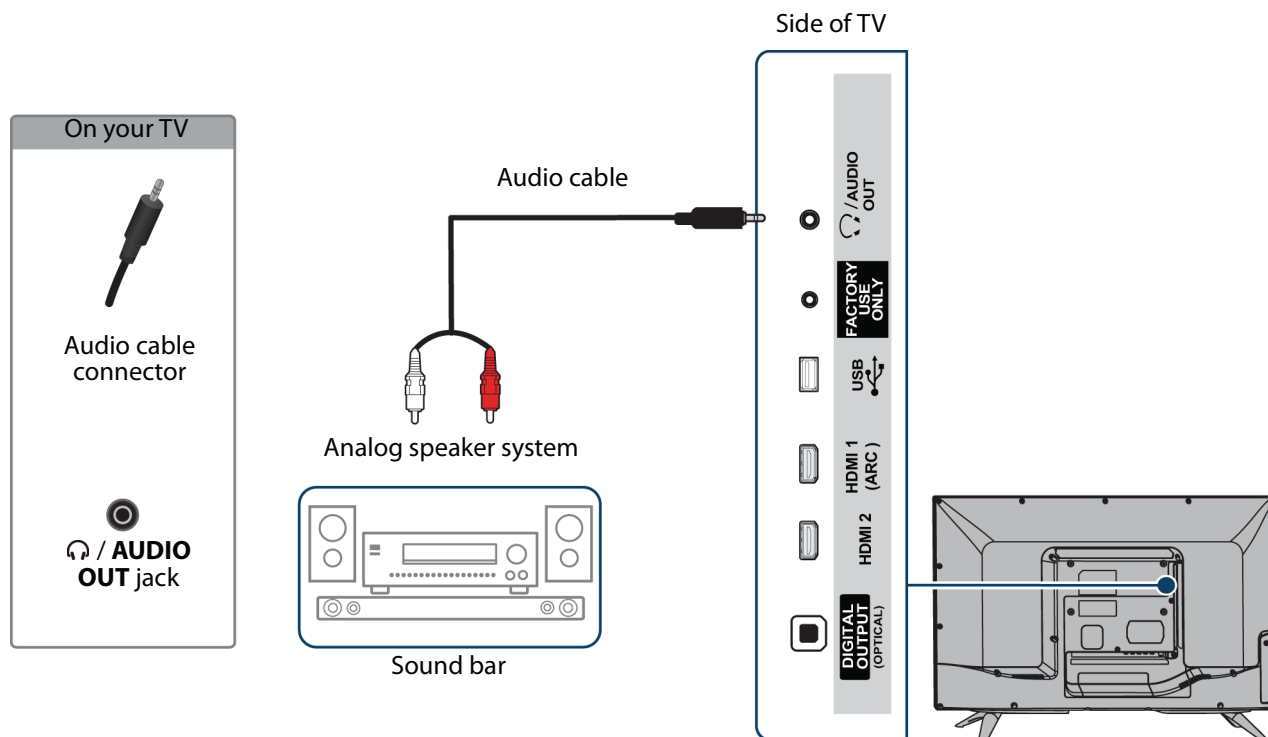
### Digital audio




- 1 Make sure that your TV's AC power adapter is unplugged and the digital speaker system or sound bar is turned off.
- 2 Connect a digital optical audio cable (not provided) to the **DIGITAL OUTPUT (OPTICAL)** jack on the side of your TV and to the optical **AUDIO IN** jack on the digital speaker system or sound bar.
- 3 Plug your TV's AC power adapter into a power outlet, then turn on your TV.
- 4 Turn on the digital speaker system or sound bar, then set it to the correct source. For more information, see the documentation that came with the digital speaker system or sound bar.
- 5 On your TV's *Audio* menu, highlight **Digital Audio Format / Audio Delay**, then press **ENTER** or **▶**. Set the **Audio Format** option to **PCM**. See the **Digital Audio Format / Audio Delay** option in "[Adjusting sound settings](#)" on page 45.

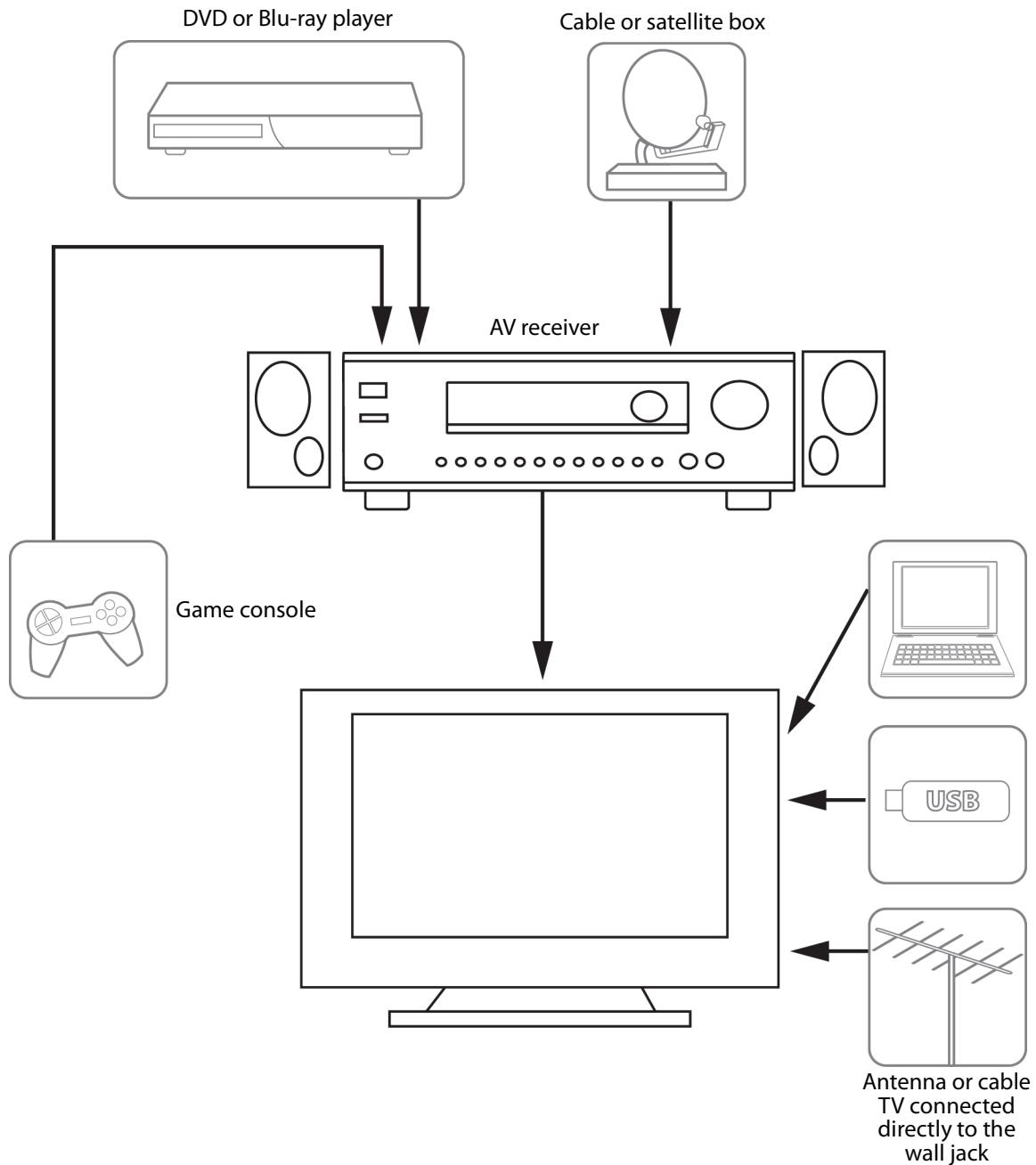
## Analog audio

When you connect an analog speaker system or sound bar to the  / **AUDIO OUT** jack, the TV speakers are muted.



- 1 Make sure that your TV's AC power adapter is unplugged and the analog speaker system or sound bar is turned off.
- 2 Connect an audio cable (not provided) to the  / **AUDIO OUT** jack on the side of your TV and to the **AUDIO IN** jacks on the analog speaker system or sound bar.
- 3 Plug your TV's AC power adapter into a power outlet, then turn on your TV.
- 4 Turn on the analog speaker system or sound bar, then set it to the correct source. For more information, see the documentation that came with the analog speaker system or sound bar.
- 5 On your TV, set the **Headphone/Audio Out** option on the *Audio* menu to **Headphones/Audio Out Variable** or **Audio Out Fixed**. See the **Headphone / Audio Out** option in "[Adjusting sound settings](#)" on page 45.

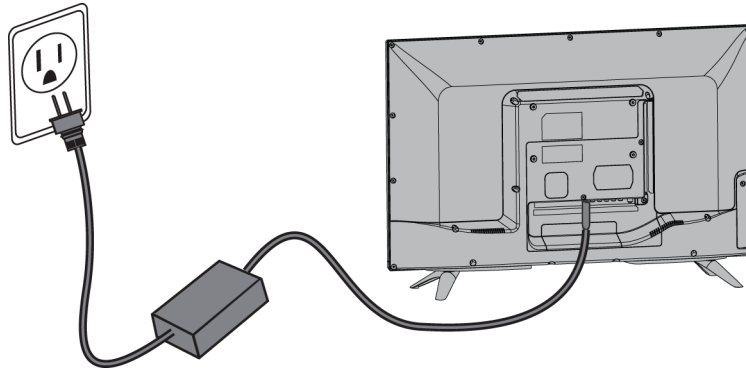
## Connecting a home theater system with multiple devices



The connections you make depend on the video and audio jacks available on your devices. Refer to the documentation that came with your devices for connection information.

Just remember to use the best connection types available for the best picture and sound. For information about connection types, see [“What connection should I use?”](#) on page 12.

## Connecting power



- 1 Connect the AC power adapter to the **DC IN** connector on the back of your TV.
- 2 Connect the other end of the adapter to a power outlet.

### Caution

- Your TV should only be operated from the power source indicated on the label.
- Always unplug the AC power adapter from the power outlet when you will not be using your TV for an extended period of time.

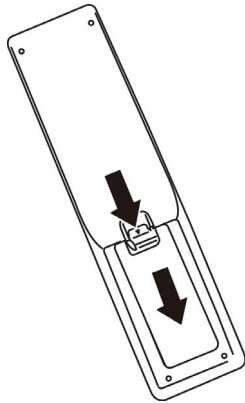
## Using the remote control

This section covers:

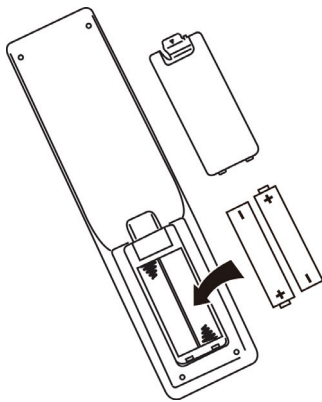
- Installing remote control batteries
- Aiming the remote control
- Programming universal remote controls
- Viewing universal remote control codes

### Installing remote control batteries

- 1 While pressing the release latch on the back of the remote control, lift the battery compartment cover off the remote control.



- 2 Insert two AAA batteries into the battery compartment. Make sure that you match the + and - symbols on the batteries with the + and - symbols in the battery compartment.



- 3 Replace the battery compartment cover.

#### Cautions

- Batteries should not be exposed to excessive heat, such as sunshine, heat registers, or fire.
- Battery chemicals can cause a rash. If the batteries leak, clean the battery compartment with a cloth. If chemicals touch your skin, wash immediately.
- Make sure that batteries are disposed of correctly. Do not burn or incinerate.

#### Notes

- Do not mix batteries of different types.
- Do not mix old and new batteries.
- Remove batteries when the charge is depleted.
- If the remote control is not going to be used for an extended period of time, remove the batteries.

### Aiming the remote control

- Point the remote control towards the remote control sensor on the front of your TV.



Remote control sensor



## Programming universal remote controls

You can operate your Insignia TV with a new or existing universal remote control.

- 1 See the table in “[Viewing universal remote control codes](#)” on page 32 for common codes. If you have problems programming your remote or need a different remote control code:
  - Contact the universal remote control or cable/satellite company of the remote control you are trying to program
  - Visit [www.insigniaproducts.com/remotecodes](http://www.insigniaproducts.com/remotecodes) for the latest remote control code information.
  - Call the Insignia Customer Care Center 1-877-467-4289.
- 2 Follow your universal remote control’s instructions to enter the TV code you found in Step 1.

### Tips

- If your universal remote control has a code search feature, run a code search to identify a code that matches your TV. See your universal remote control’s instructions for details.
- If your universal remote control has a “Learn” feature, you can manually program it using the Insignia TV remote to “teach” the commands one at a time. See your universal remote control’s instructions for details.

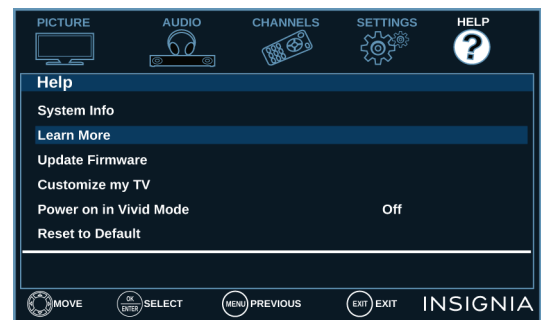
## Viewing universal remote control codes

You can view a list of universal remote control codes in the on-screen menu.

### Tips

- The brand name is often visible on the front of the universal remote control, and the model number is often visible on the back.
- If your universal remote control is not listed, refer to your universal remote control’s instructions and try codes for the brands Orion, Emerson, Memorex, Sansui, Sylvania, or Zenith. You may need to try several codes before finding a match.

- 1 Press **MENU**.
- 2 Press ◀ or ▶ to highlight **HELP**, then press ▼ or **ENTER**.



- 3 Press ▲ or ▼ to highlight **Learn More**, then press **ENTER**.
- 4 Press ▲ or ▼ to highlight **Remote control codes**, then press **ENTER**. Your TV displays information about the universal remote codes.
- 5 Press **ENTER** or ▶. Your TV displays a list of remote control codes for various brands of universal remote controls.
- 6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

### Note:

You can also find codes for other remote controls at: <http://www.insigniaproducts.com/remotecodes>  
Or, check with your cable or satellite TV provider for the remote control code.

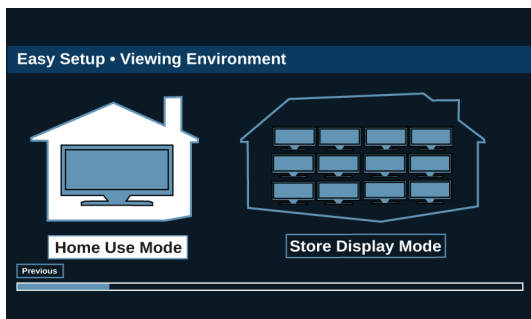
## Turning on your TV for the first time

The first time you turn on your TV, the *Easy Setup* wizard opens. The wizard guides you through setting up basic settings including the menu language, time setting, picture mode, TV signal source, and the channel list.

- Make sure that you have:
  - Installed the remote control batteries. (See page 31.)
  - Connected an antenna, cable TV, or satellite TV. (See page 13 through page 17.)
  - Connected the AC power adapter. (See page 30.)
- Press **⏻** (power) to turn on your TV. The *Easy Setup* wizard opens.



- Press **▲** or **▼** to highlight a language, then press **ENTER**.



- Press **◀** or **▶** to highlight **Home Use Mode** or **Store Display Mode**, then press **ENTER**.

If you selected **Store Display Mode**, a message asks if you are sure you want this mode. Select **OK** to continue using **Store Display Mode**, or select **Cancel** to switch to **Home Use Mode**, then press **ENTER**. **Store Display Mode** is not an energy savings mode and displays a retail banner.

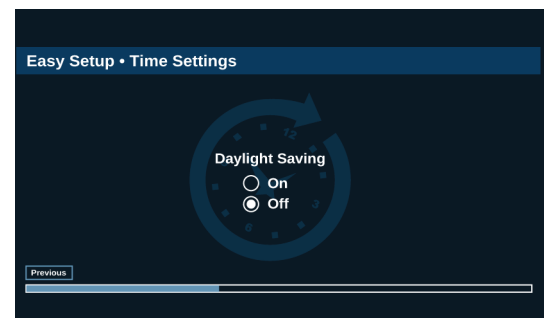


- Press **◀** or **▶** to highlight an option, then press **ENTER**. You can select:
  - Watch TV** to skip the customization options. You can press **MENU** later to customize settings. Go to "Finish the wizard" on page 34.
  - Customize my TV** to set options to maximize your experience. Go to "Customize my TV" on page 33.

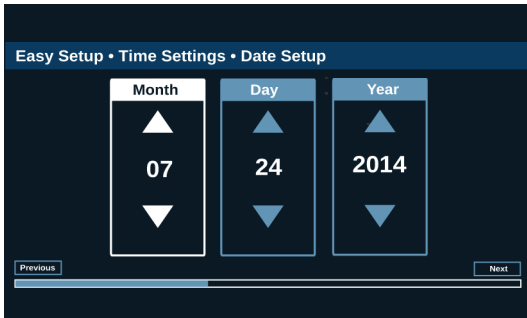
### Customize my TV



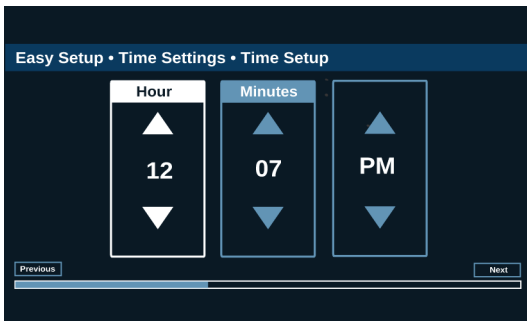
- Press **▲** or **▼** to highlight a time zone, then press **ENTER**.



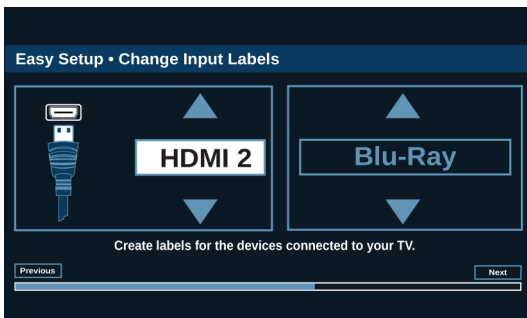
- Press **▲** or **▼** to select **On** to turn on **Daylight Saving** or **Off** to turn off **Daylight Saving**, then press **ENTER**.



- Press **◀** or **▶** to highlight **Month**, **Day**, or **Year**, press **▲** or **▼** adjust the setting, then press **ENTER** or press **▶** to highlight **Next** and press **▶** again.



- Press **◀** or **▶** to highlight **Hour**, **Minutes**, or the **AM/PM** field, press **▲** or **▼** adjust the option, then press **ENTER** or press **▶** to highlight **Next** and press **▶** again.



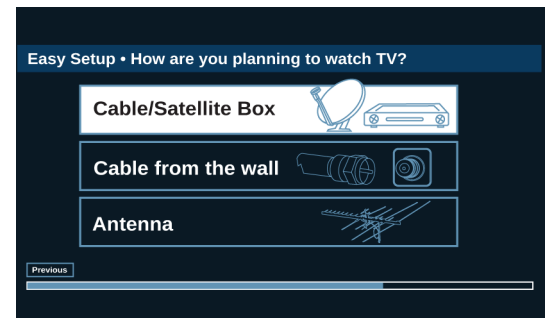
- Press **▲** or **▼** to highlight a video input source, then press **▶** to move to the label area.
- Press **▲** or **▼** to highlight a preset label or **Custom**.

- If you select a preset label, press **▶** to select **Next**, then press **ENTER**.

OR

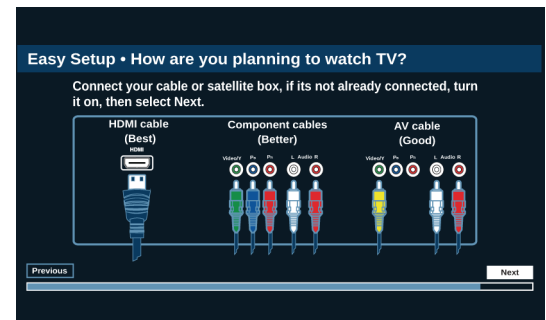
If you select **Custom**, press **ENTER**, then press **▲** or **▼** to enter the first character in your custom label. Press **◀** or **▶** to move to the previous or next character position. Use the arrow buttons to enter additional characters. You can enter 12 characters (letters or numbers). When you have finished creating your label, press **ENTER** to save your label, press **▶** select **Next**, then press **ENTER** again.

### Finish the wizard

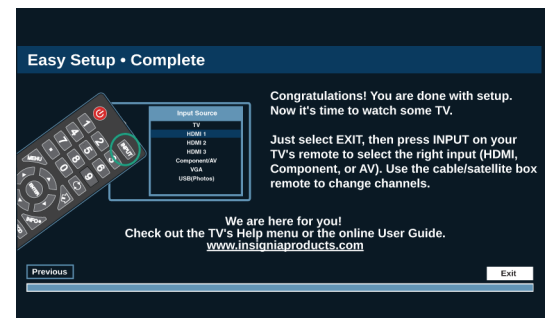


- Press **▲** or **▼** to highlight **Cable / Satellite Box**, **Cable from the wall**, or **Antenna**, then press **ENTER**.

- If you select **Cable / Satellite Box**, the screen that opens shows you the ways you can connect the box.



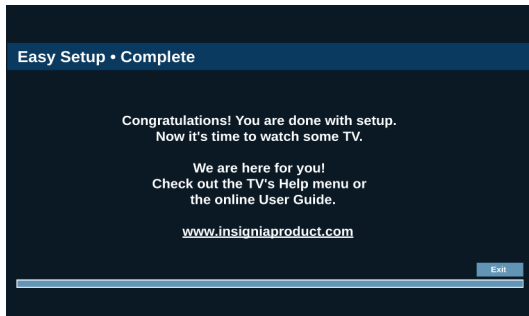
Press **ENTER**.



- If you select **Cable from the wall** or **Antenna**, your TV starts scanning for channels and displays a progress screen.

**Note**

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.



- 14 Press **ENTER** to close the wizard. If you selected:
- **Cable from the wall** or **Antenna**, your TV tunes to the first channel it found in the scan.
  - **Cable/Satellite box**, press **INPUT** to open the *INPUT SOURCE* list, press **▲** or **▼** to select the video input (**HDMI**, **Component**, or **AV**) you connected the box to, then press **ENTER**. Your TV switches to the input you selected.

## Understanding the basics

This section covers basic information for:

- Turning your TV on or off
- Selecting the video input source
- On-screen menu overview
- Navigating the menus
- Selecting a channel
- Adjusting the volume
- Viewing channel information

### Turning your TV on or off

- 1 Make sure that the power adapter is connected to a power outlet.
- 2 Press **⏻** (power) to turn on your TV. The power indicator turns off.
- 3 Press **⏻** (power) again to turn off your TV. Your TV enters standby mode, and the power indicator turns red.

**Warning**

When your TV is in standby mode, it is still receiving power. To completely disconnect power, unplug the power adapter.

**Note**

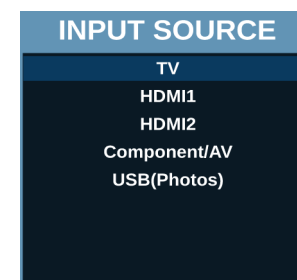
If your TV does not receive an input signal for several minutes, it automatically goes into standby mode.

### Selecting the video input source

**Note**

Your TV automatically detects and displays which video jacks have devices connected to them when the devices are turned on. You can turn this feature off to always display all inputs. For more information, see "Turning the input sensor on or off" on page 59.

- 1 Turn on your TV.
- 2 If you want to use a device connected to a video input (such as a DVD or Blu-ray player), turn on the device.
- 3 Press **INPUT**.



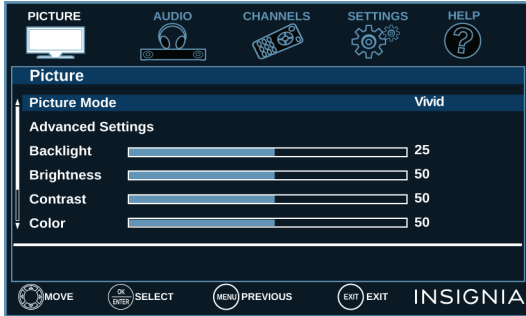
- 4 Press **▲** or **▼** to select a video input source, then press **ENTER**.

## On-screen menu overview

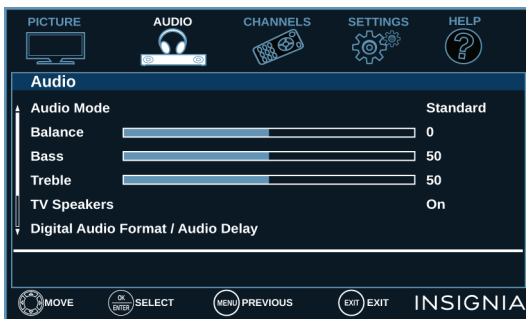
### Notes

- Depending on the signal source selected, you may see different options on your screen.
- Menu items that are not selectable are grayed out.

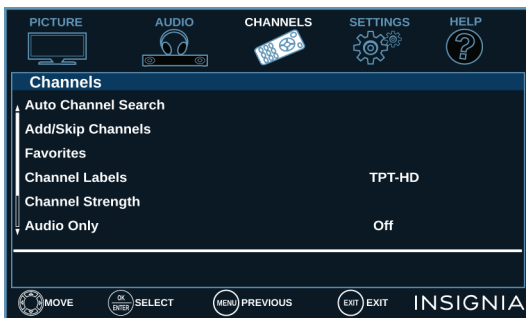
### Picture menu (TV mode)



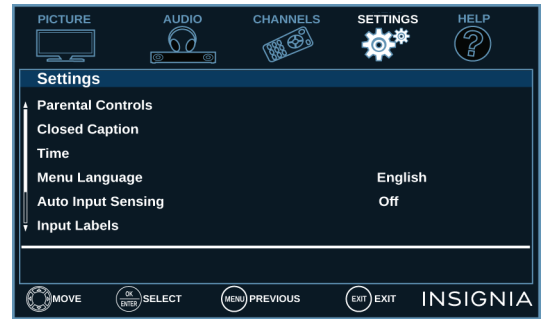
### Audio menu (TV mode)



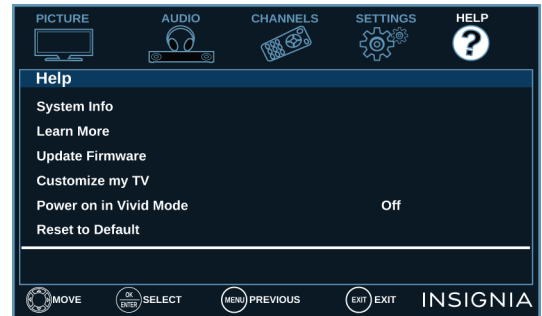
### Channels menu (TV mode)



### Settings menu (TV mode)



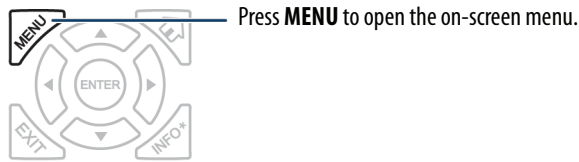
### Help menu



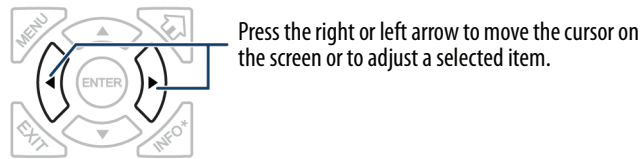
### Photos menu (USB mode)



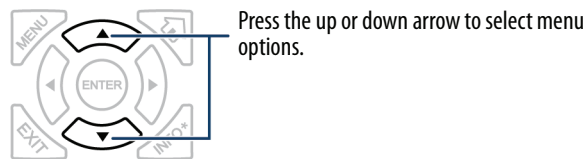
## Navigating the menus



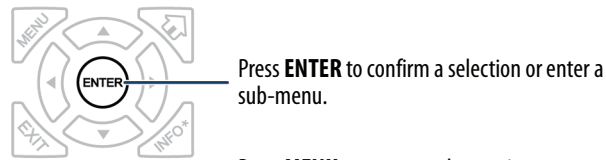
Press **MENU** to open the on-screen menu.



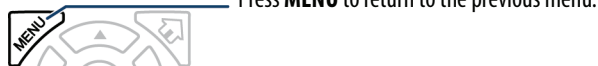
Press the right or left arrow to move the cursor on the screen or to adjust a selected item.



Press the up or down arrow to select menu options.



Press **ENTER** to confirm a selection or enter a sub-menu.



Press **MENU** to return to the previous menu.



Press **EXIT** to close the menu.

## Selecting a channel

- Press **CH**  $\wedge$  or **CH**  $\vee$  to go to the next or previous channel on the memorized channel list.
- Press the number buttons to enter the channel number you want, then wait for the channel to change or press **ENTER** to immediately change the channel.
- To select a digital sub-channel, press the number buttons to select the main digital channel, press  $\blacksquare$  (sub-channel), then press the number button for the sub-channel. Wait for the channel to change, or press **ENTER** to immediately change the channel. For example, to tune to channel 5.1, press **5**,  $\blacksquare$  (sub-channel), then **1**.

### Note

Button presses must be within three seconds of each other.

- Press  $\curvearrowright$  (return) to go to the last viewed channel.
- Press **FAVORITE** to open the favorite channel list, press  $\blacktriangle$  or  $\blacktriangledown$  to highlight a channel, then press **ENTER**. For information about setting up a favorite channel list, see "[Setting up a favorite channel list](#)" on page 49.

### Note

If a list has more than one page, press  $\blacktriangle$   $\blacktriangledown$   $\blacktriangleleft$  or  $\blacktriangleright$  to scroll through the pages.

## Adjusting the volume

- Press **VOL+** or **VOL-** to increase or decrease the volume.
- Press **MUTE** to turn off the sound. Press **MUTE** again to turn the sound back on.

## Viewing channel information

- Press **INFO\*** to view an information banner. The information banner shows the current program information such as channel number, video input source, and resolution.
  - Digital channel information—Displays the channel number, station name, channel label, broadcast program name, TV rating, signal type, audio information, resolution, current time, signal strength, day of the week, date and current program start and end times, if provided by the broadcaster.
  - Analog channel information—Displays channel number, channel label (if present), signal type, audio information, day of the week, date, and resolution, if provided by the broadcaster.

# Using INlink

INlink lets you control HDMI CEC-compatible devices connected to the HDMI jacks on your TV using the remote control that came with your TV. To use INlink, you must set the **INlink Control** setting on the *INlink* menu to **On**.

**Notes**

- HDMI cables must be used to connect HDMI CEC-compatible devices to your TV.
- The connected device's HDMI CEC feature must be turned on.
- If you connect an HDMI device that is not HDMI CEC-compatible, none of the **INlink Control** features work.
- Depending on the connected HDMI device, some **INlink Control** features may not work.

This section covers:

- Turning INlink on or off
- Turning Device Auto Power Off on or off
- Turning TV Auto Power On on or off
- Turning Audio Receiver on or off
- Displaying a list of INlink-compatible devices
- Selecting an INlink-compatible device

## Turning INlink on or off

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **INlink**, then press **ENTER** or **▶**.



- 4 Press **▲** or **▼** to highlight **INlink Control**, then press **ENTER** or **▶**.
- 5 Press **▲** or **▼** to highlight **On** or **Off**, then press **ENTER**.
- 6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

## Turning Device Auto Power Off on or off

When INlink is set to **On**, **Device Auto Power Off** automatically turns off HDMI CEC devices when you turn off your TV.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **INlink**, then press **ENTER** or **▶**.



- 4 Press **▲** or **▼** to highlight **Device Auto Power Off**, then press **ENTER** or **▶**.
- 5 Press **▲** or **▼** to highlight **On** (turns off the connected devices when you turn off your TV) or **Off** (does not turn off the connected devices when you turn off your TV), then press **ENTER**.
- 6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.



## Turning TV Auto Power On on or off

**TV Auto Power On** automatically turns on your TV when an HDMI CEC device is turned on, if the device has this feature.

- 1 Press **MENU**.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **ENTER**.



- 3 Press ▲ or ▼ to highlight **INlink**, then press **ENTER** or ▶.

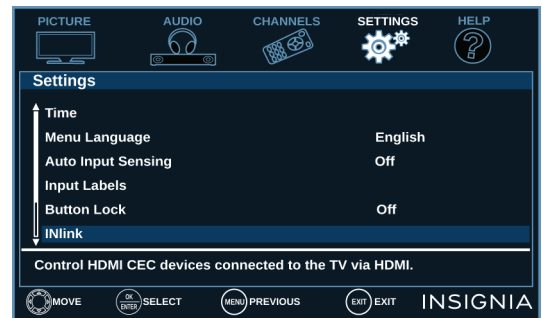


- 4 Press ▲ or ▼ to highlight **TV Auto Power On**, then press **ENTER** or ▶.
- 5 Press ▲ or ▼ to highlight **On** (turns on your TV when you turn on the connected device) or **Off** (does not turn on your TV when you turn on the connected device), then press **ENTER**.
- 6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

## Turning Audio Receiver on or off

When INlink is turned on and you have connected an HDMI CEC-compatible audio receiver to your TV, turning on **Audio Receiver** lets you use your TV's remote control to control the volume on the audio receiver.

- 1 Press **MENU**.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **ENTER**.



- 3 Press ▲ or ▼ to highlight **INlink**, then press **ENTER** or ▶.



- 4 Press ▲ or ▼ to highlight **Audio Receiver**, then press **ENTER** or ▶.
- 5 Press ▲ or ▼ to highlight **On** (your TV's remote control controls the connected audio receiver's volume) or **Off** (your TV's remote control does not control the connected audio receiver's volume), then press **ENTER**.
- 6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.



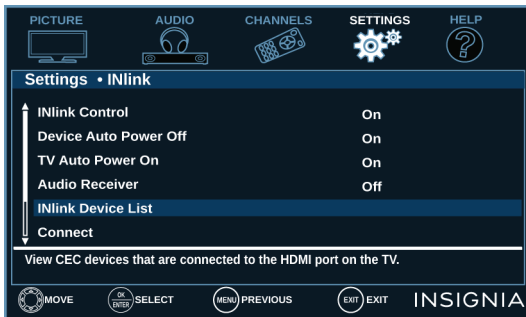
## Displaying a list of INlink-compatible devices

You can display a list of HDMI CEC devices that are connected to your TV.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **INlink**, then press **ENTER** or **▶**.



- 4 Press **▲** or **▼** to highlight **INlink Device List**, then press **ENTER** or **▶**. A list of the HDMI CEC-compatible devices you have connected appears.
- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

## Selecting an INlink-compatible device

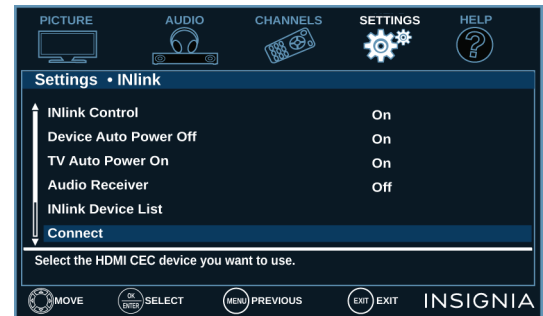
When you have more than one INlink-compatible device connected, you can select the device you want to use.

You can also open an INlink-compatible device's root menu.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **INlink**, then press **ENTER** or **▶**.



- 4 Press **▲** or **▼** to highlight **Connect**, then press **ENTER** or **▶**.
- 5 Press **▲** or **▼** to highlight the device you want to connect to, then press **ENTER**.
- 6 Press **▲** or **▼** to select an option. You can select:
  - **Connect**—Wake (turn on) the device if it is in standby mode or returns to the device if you have switched to a different video input mode.
  - **Root Menu**—Open the device's root menu, then use your TV's remote control to control the device, if the device has this feature.
- 7 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

## Using a USB flash drive

You can connect a USB flash drive to your TV to view compatible JPEG pictures.

### Notes

- Never remove the USB flash drive or turn off your TV while viewing JPEG pictures.
- The JPEG picture viewer only supports JPEG format images (with ".jpg" file extensions) and not all JPEG files are compatible with your TV.

This section covers:

- [Switching to USB mode](#)
- [Browsing photos](#)
- [Viewing favorite photos](#)
- [Viewing photos in a slideshow](#)

### Switching to USB mode

- 1 Make sure that you have connected the USB flash drive to the USB port on your TV.
- 2 Press **▲** or **▼** to highlight **Yes** in the message that appears, then press **ENTER**. The *Photos* menu opens.

OR

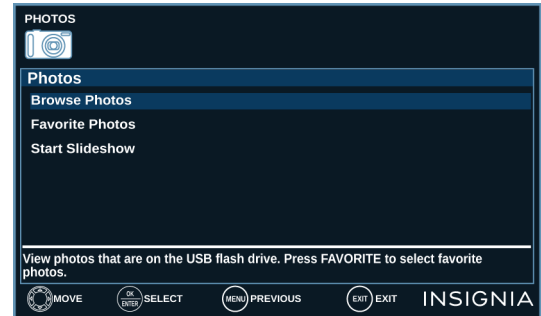
If you connected the USB flash drive, then changed to a different video input source, press **INPUT** to open the *INPUT SOURCE* list, press **▲** or **▼** to highlight **USB(Photos)**, then press **ENTER**. The *Photos* menu opens.

### Note

To exit USB mode, press **INPUT** to open the *INPUT SOURCE* list, then select another input source.

### Browsing photos

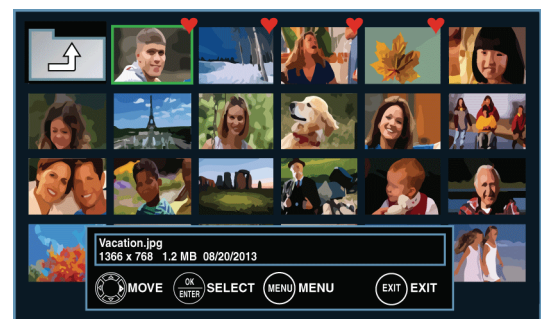
- 1 Switch to USB mode. See "[Switching to USB mode](#)" on page 41.



- 2 Press **▲** or **▼** to highlight **Browse Photos**, then press **ENTER** or **▶**. The screen displays folder names and photo files stored on the USB flash drive in a thumbnail index with the first folder or file highlighted. A control bar appears at the bottom of the screen.

### Notes

- Photos are shown in the order they appear on the USB flash drive. They may not be listed in file name order.
- Favorite photos are marked with hearts.



- 3 To navigate the thumbnail index screen, press:
  - **▲ ▼ ◀ ▶** to browse through the files and folders.
  - **ENTER** to view a highlighted photo full-screen or open a highlighted folder.
  - **MENU** or **EXIT** to open the *Photos* menu.
  - **FAVORITE** to add or remove a photo from the favorite photo list. A heart appears on a photo that has been added to the favorite photo list.

When a photo is displayed full-screen, a control bar appears at the bottom of the photo. The file name, picture resolution, size, and date are displayed on the bottom of the control bar. If you do not press a button within 10 seconds, the control bar closes. Press **INFO\*** to open the control bar again.

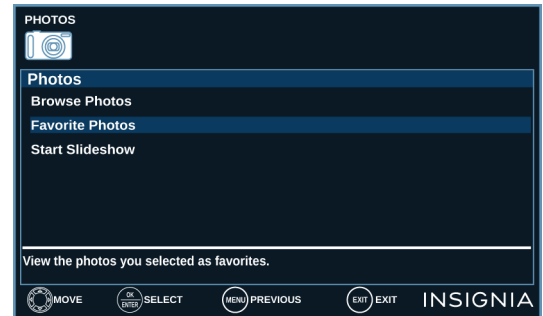


- 4 To navigate on the photo screen, press:
  - ◀ to go to the previous photo.
  - ▶ to go to the next photo.
  - **ENTER** to rotate the photo clockwise.
  - **ASPECT** one or more times to enlarge the image by 2x, or 4x or to select **Fill** (to fill the screen). You can press ▲ ▼ ◀ or ▶ to pan the photo.
  - **EXIT** to return to the thumbnail index.
  - **MENU** to return to the *Photos* menu.

## Viewing favorite photos

After you create your favorite photo list, you can browse among your favorite photos quickly.

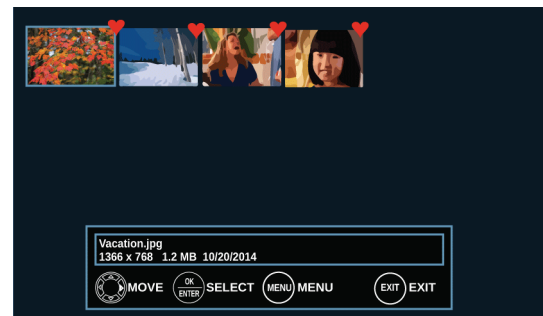
- 1 Switch to USB mode. See “Switching to USB mode” on page 41.



- 2 Press ▲ or ▼ to highlight **Favorite Photos**, then press **ENTER** or ▶. A thumbnail index of your favorite photos opens with a control bar at the bottom of the screen.

### Note

Photos are shown in the order they appear on the USB flash drive. They may not be listed in file name order.

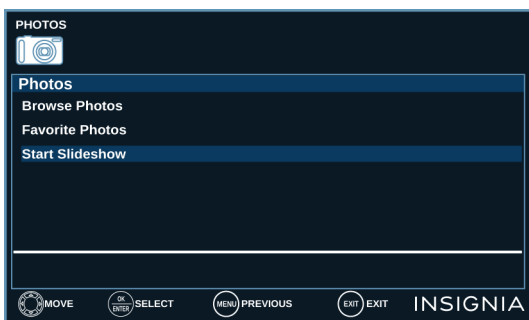


You select photos and navigate on the photo screen in the same way you do when you are browsing through photos. For more information, see “Browsing photos” on page 41.

## Viewing photos in a slideshow

You can view your photos in a slideshow.

- 1 Switch to USB mode. See “Switching to USB mode” on page 41.
- 2 If the photos you want to view are in a folder on the USB flash drive, select the folder. For information about selecting a folder, see “Browsing photos” on page 41 or “Viewing favorite photos” on page 42.
- 3 Press **MENU**.



- 4 Press **▲** or **▼** to highlight **Start Slideshow**, then press **ENTER** or **▶**. A slideshow starts with the first photo in the current folder.
- 5 To control the slideshow:

Press...	To...
MENU	Press to open the <i>Photos</i> menu.
◀ (left arrow) OR ◀◀ (previous)	Return to the previous photo.
▶ (right arrow) OR ▶▶ (next)	Go to the next photo.
ENTER	Pause the slideshow. Press again to resume the slideshow.
(pause)	Pause the slideshow.
▶ (play)	When paused, press to resume the slideshow.
■ (stop) OR EXIT	Press to stop the slideshow and return to the thumbnail index.

## Adjusting the picture

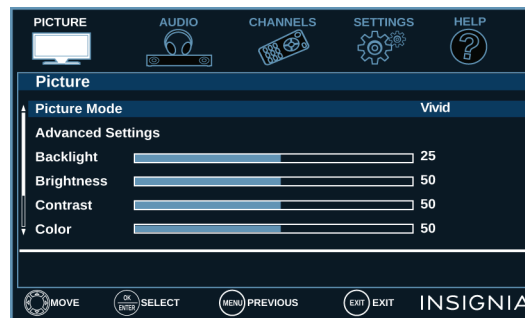
This section covers:

- Adjusting the TV picture
- Automatically adjusting the aspect ratio
- Setting the power on picture mode

### Adjusting the TV picture

You can adjust various settings to improve the quality of the TV picture. Also, you can reset all picture settings to the factory default.

- 1 Press **MENU**.



- 2 Press **▼** or **ENTER** to access the *Picture* menu.

3 Press ▲ or ▼ to highlight an option, then press **ENTER** or ► to access the option. You can select:

- **Picture Mode**—Selects the picture mode. You can select:
  - **Vivid**—(a bright and vivid picture). Significantly increases the contrast, brightness, and sharpness. This selection is good for video games, animation, and in bright light environments.
  - **Standard**—(a standard picture). Moderately increases the contrast, brightness, and sharpness. This selection is good for standard TV broadcasts.
  - **Energy Savings**—(the backlight brightness is decreased). Your TV has a backlight that provides light for displaying a picture. By reducing the amount of light, your TV uses less energy.
  - **Movie**—(a finely detailed picture). Adjusts the brightness and contrast and lowers the sharpness for a more realistic picture. This selection is good for watching the highest quality video such as Blu-ray Discs, DVDs, and HDTV.
  - **Game**—Adjusts the picture for the ultimate gaming experience.

**Note**

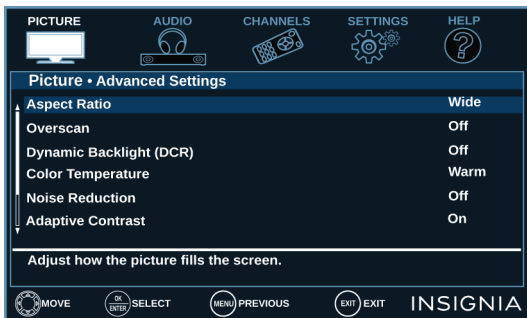
- You can also press **GAME** to select **Game** mode.
- **Game** mode is only available when the video input is set to **HDMI** or **Component/AV**.

- **Custom**—(customized picture). Lets you manually adjust picture settings such as brightness, contrast, and sharpness.

**Note**

You can also press **PICTURE** to select the picture mode.

- **Advanced Settings**—Opens the *Picture · Advanced Settings* menu where you can adjust additional video options.



- **Aspect Ratio**—Adjusts how the picture fills the screen. You can select:

Aspect ratio options	Example
<p><b>Normal:</b> Displays the image in the original aspect ratio. You may see black bars if the original content is not widescreen (16:9).</p>	
<p><b>Zoom:</b> Expands the image to fill the screen. The top and bottom of the image may be cropped.</p>	
<p><b>Wide:</b> Use this option to view content recorded in a widescreen (16:9) aspect ratio.</p>	
<p><b>Cinema:</b> Stretches the image at the edges, but keeps a clear image in the center.</p>	
<p><b>Auto:</b> Automatically adjusts the image based on the screen size and the TV program. Select this option if you do not know which aspect ratio to choose.</p>	

**Note:** **Auto** is only available when **Auto Aspect Ratio** in the *Channels* menu is set to **On**.

**Note**

You can also press **ASPECT** to select the aspect ratio.

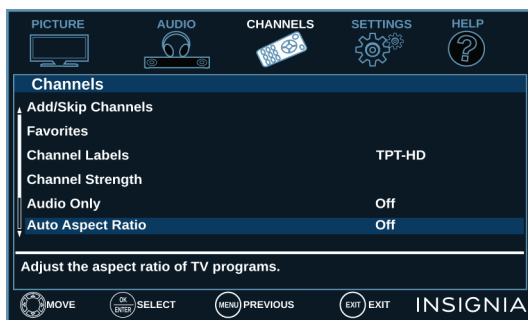
- **Overscan**—Extends text and images past the screen edges to hide edge artifacts. You can select **On** or **Off**.
- **Dynamic Backlight (DCR)**—Enhances the contrast ratio between light and dark areas of the picture. You can select **Off**, **Low**, or **High**.
- **Color Temperature**—Selects the color temperature. You can select **Cool** (to enhance the blues), **Normal**, or **Warm** (to enhance the reds).
- **Noise Reduction**—Selects the noise reduction mode to reduce picture noise (snow). You can select **Off**, **Low**, **Middle**, or **High**.
- **Adaptive Contrast**—Automatically adjusts picture detail and brightness. You can select **On** or **Off**.

- **Backlight**—Sets the overall brilliance of the screen.
  - **Brightness**—Adjusts the brightness of the dark areas of the picture.
  - **Contrast**—Adjusts the brightness of the light areas of the picture.
  - **Color**—Adjusts the color intensity of the picture. A low setting may make the color look faded. A high setting may make the color look artificial.
  - **Tint**—Adjusts the color balance of the picture. Use this control to make skin tones look more natural.
  - **Sharpness**—Adjusts the color detail of images. If you set this control too high, dark images may appear with light or white edges.
  - **Reset Picture Settings**—Resets all picture settings to factory mode.
- 4 Press ◀ or ▶ to adjust the option, or press ▲ or ▼ to select a setting.
  - 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

### Automatically adjusting the aspect ratio

**Auto Aspect Ratio** automatically changes how the picture looks on the screen (aspect ratio) based on the TV program you are viewing.

- 1 Press **MENU**.
- 2 Press ◀ or ▶ to highlight **CHANNELS**, then press ▼ or **ENTER**.

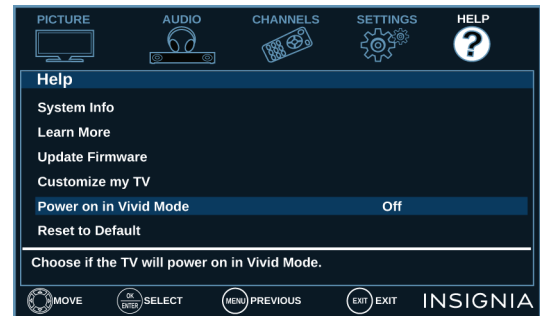


- 3 Press ▲ or ▼ to highlight **Auto Aspect Ratio**, then press **ENTER** or ▶.
- 4 Press ▲ or ▼ to select **On** (automatically adjust the aspect ratio) or **Off** (does not automatically adjust the aspect ratio), then press **ENTER**.
- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

### Setting the power on picture mode

You can set the picture mode your TV uses when you turn it on.

- 1 Press **MENU**.
- 2 Press ◀ or ▶ to highlight **HELP**, then press ▼ or **ENTER**.



- 3 Press ▲ or ▼ to highlight **Power on in Vivid Mode**, then press **ENTER** or ▶.
- 4 Press ▲ or ▼ to highlight **On** (when you turn on your TV, it will be in **Vivid** picture mode) or **Off** (when you turn on your TV, it will be in the picture mode it was in before you turned it off), then press **ENTER**.
- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

## Adjusting the sound

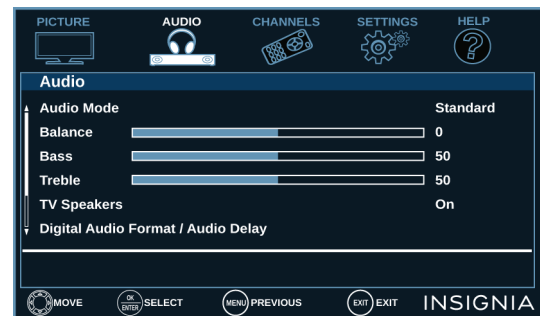
This section covers:

- [Adjusting sound settings](#)
- [Selecting the audio out mode](#)
- [Playing TV audio only](#)

### Adjusting sound settings








You can adjust sound settings to improve the sound quality. You also can reset all sound settings to the factory default.

- 1 Press **MENU**.
- 2 Press ◀ or ▶ to highlight **AUDIO**, then press ▼ or **ENTER**.





- 3 Press ▲ or ▼ to highlight an option, then press **ENTER** or ▶ to access the option. You can select:

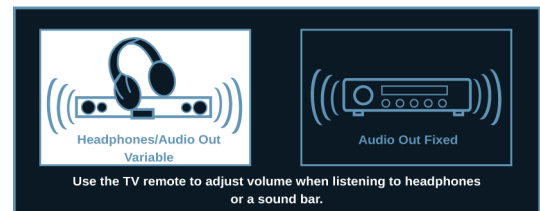




- **Audio Mode**—Selects the sound mode. You can select:
    - **Standard**—Balances treble and bass. This setting is good for watching standard TV broadcasts.
    - **Theater**—Enhances treble and bass for a rich sound experience. This setting is good for watching DVDs, Blu-ray discs, and HDTV.
    - **Music**—Preserves the original sound. This setting is good for listening to music.
    - **News**—Enhances vocals for TV audio. This setting is good for watching news broadcasts.
    - **Custom**—Lets you manually adjust sound settings.
  - **Balance**—Adjusts the balance between the left and right audio channels.
  - **Bass**—Adjusts the low sounds.
  - **Treble**—Adjusts the high sounds.
  - **TV Speakers**—Selects where to play TV audio. When you connect headphones to your TV, audio plays through both the headphones and the TV speakers. You can select:
    - **Auto** (default setting)—Automatically turns off the TV speakers when you connect a device to the  / **AUDIO OUT** jack. When you disconnect the device, the TV speakers turn on automatically.
    - **On**—Always plays the audio through the TV speakers. If a device is connected to the  / **AUDIO OUT** jack, the audio is played through both the TV speakers and the device.
    - **Off**—Turns off the TV speakers and plays the audio only through the device connected to the  / **AUDIO OUT** jack. If you disconnect the device, the TV speakers remain turned off.
  - **Digital Audio Format/Audio Delay**—Adjusts the digital audio sent to an external audio system. You can select:
    - **Audio Format**—Selects the digital audio format sent to an external audio system. You can select:
      - **Pass Thru** (to pass through the original digital audio sound).
      - **PCM** (to output audio in 2-channel stereo).
    - **Audio Delay**—Fine tunes the audio when it is not in sync with the video.
  - **MTS/SAP**—(Analog channels only) Selects the audio mode. You can select:
    - **Mono**—Select this option if there is noise or static on weak stereo broadcasts.
    - **Stereo**—Select this option for programs broadcast in stereo.
    - **SAP**—Select this option to listen to a secondary audio program, if available.
  - **Audio Language**—(Digital channels only) Selects an alternate audio language, if available.
  - **Headphones/Audio Out**—You can use the  / **AUDIO OUT** jack on the side of your TV to connect headphones, a home theater system, sound bar, or external speaker system. When a device is connected to the  / **AUDIO OUT** jack, the TV speakers are muted. You can select:
    - **Headphones/Audio Out Variable**—Select this option to use the remote control that came with your TV to control the audio from headphones, a home theater system, a sound bar, or an external speaker system you connected to the  / **AUDIO OUT** jack.
    - **Audio Out Fixed**—Select this option to use the remote control that came with the home theater system, sound bar, or external speaker system you connected to the  / **AUDIO OUT** jack to control the audio.
  - **Reset Audio Settings**—Reset all audio settings to factory defaults.
- 4 Press **▲ ▼ ◀ ▶** to adjust the option select a setting, then press **ENTER**.
  - 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

### Selecting the audio out mode

If your TV is on when you connect a device to the  / **AUDIO OUT** jack on the side of your TV, a screen opens where you select which audio out mode you want to use.

- 1 Connect headphones, a home theater system, sound bar, or external speaker system to the  / **AUDIO OUT** jack on the side of your TV.

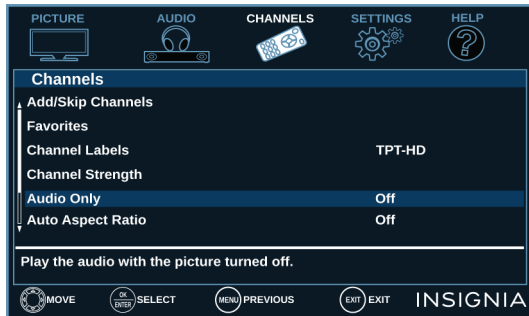


- 2 Press **◀ ▶** to highlight the audio out mode you want to use, then press **ENTER**. You can select:
  - **Headphones/Audio Out Variable**—Select this option to use the remote control that came with your TV to control the audio from headphones, a home theater system, or a sound bar you connected to the  / **AUDIO OUT** jack.
  - **Audio Out Fixed**—Select this option to use the remote control that came with the home theater system, sound bar, or external speaker system you connected to the  / **AUDIO OUT** jack to control the audio.

## Playing TV audio only

You can turn off the picture on your TV and listen to the program audio only.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **CHANNELS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Audio Only**, then press **ENTER** or **▶**.
- 4 Press **▲** or **▼** to select **On**.
- 5 Press **MENU**, **ENTER**, or **◀** to return to the previous menu, or press **EXIT** to close the menu.

### Notes

- The picture turns off in about five seconds.
- **Audio Only** works only when the input source is TV, and your TV is receiving a broadcast signal.
- To exit audio only mode, press any button. When you exit audio only mode, the **Audio Only** option is automatically reset to **Off**.

## Changing channel settings

This section covers:

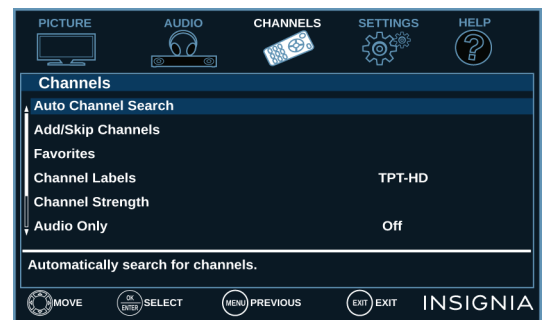
- Automatically scanning for channels
- Hiding channels
- Setting up a favorite channel list
- Viewing a favorite channel
- Adding or changing a channel label
- Checking the digital signal strength

### Automatically scanning for channels

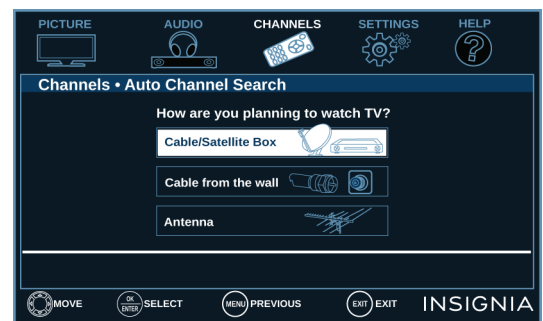
When you scan for channels, your TV searches for channels with signals and stores the channel information in the channel list. When you press **CH ▲** or **CH ▼**, your TV goes to the next or previous channel in the channel list.

If the TV signal source changes, for example you change from an outdoor antenna to cable TV (no box), you need to scan for channels.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **CHANNELS**, then press **▼** or **ENTER**.



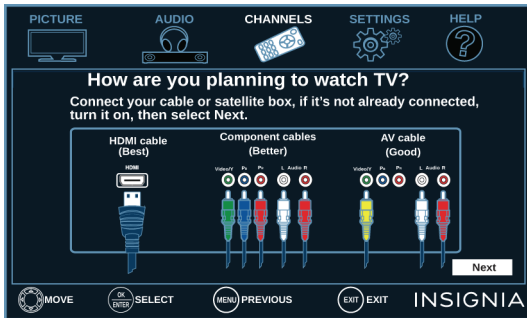
- 3 Press **▲** or **▼** to highlight **Auto Channel Search**, then press **ENTER** or **▶**.



- 4 Press **▲** or **▼** to highlight **Cable / Satellite Box**, **Cable from the wall**, or **Antenna**, then press **ENTER**.



- A** If you select **Cable/Satellite Box**, the screen that opens shows you all the ways you can connect a box to your TV.



Press **▶** to highlight **Next**, then press **ENTER**. When a message appears telling you setup is complete, press **EXIT** to close the menu.

Press **INPUT** to open the *INPUT SOURCE* list, then press **▲** or **▼** to select the video input source you connected your TV to and press **ENTER**. Your TV switches to the input source you selected.

- B** If you select **Cable from the wall**, your TV scans for available channels. The scan may take several minutes.

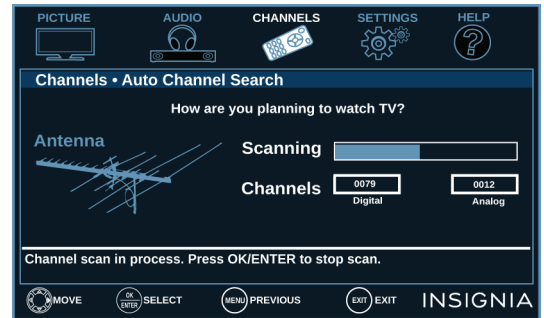


When the scan is complete, the on-screen menu closes and your TV tunes to the first channel it found when scanning.

**Note**

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

- C** If you select **Antenna**, your TV scans for available channels. The scan may take several minutes.



When the scan is complete, the on-screen menu closes and your TV tunes to the first channel it found when scanning.

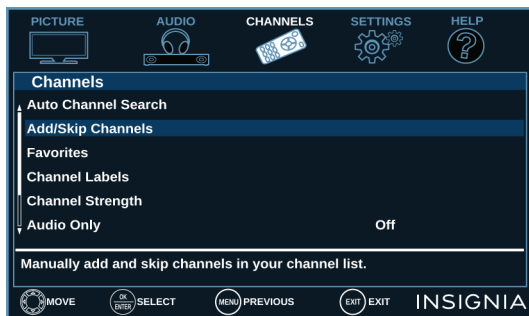
**Note**

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

## Hiding channels

You can hide channels in the channel list. When you press **CH**  $\wedge$  or **CH**  $\vee$ , your TV skips the hidden channels. You can still tune to a hidden channel by pressing the number buttons for the channel.

- 1 Press **MENU**.
- 2 Press  $\blacktriangleleft$  or  $\blacktriangleright$  to highlight **CHANNELS**, then press  $\blacktriangledown$  or **ENTER**.



- 3 Press  $\blacktriangle$  or  $\blacktriangledown$  to highlight **Add / Skip Channels**, then press **ENTER** or  $\blacktriangleright$ .



- 4 Press  $\blacktriangle$   $\blacktriangledown$   $\blacktriangleleft$  or  $\blacktriangleright$  to highlight the channel you want to hide, then press **ENTER**. Each channel has a circle to the left. When you hide a channel the circle is empty.

### Notes

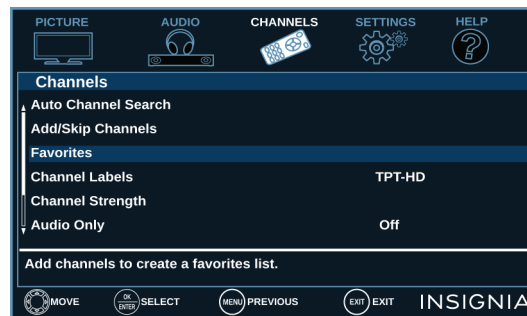
- If you highlight a channel in the list for two to four seconds, your TV displays the channel in the background.
- A channel with a filled circle to the left is not hidden. A channel with an empty circle to the left is hidden.
- If the list has more than one page, press  $\blacktriangle$   $\blacktriangledown$   $\blacktriangleleft$  or  $\blacktriangleright$  to scroll through the pages.

- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

## Setting up a favorite channel list

You can create a favorite channel list so you can quickly browse through your favorite channels by pressing **FAVORITE**, then selecting a channel from the favorite channel list.

- 1 Press **MENU**.
- 2 Press  $\blacktriangleleft$  or  $\blacktriangleright$  to highlight **CHANNELS**, then press  $\blacktriangledown$  or **ENTER**.



- 3 Press  $\blacktriangle$  or  $\blacktriangledown$  to highlight **Favorites**, then press **ENTER** or  $\blacktriangleright$ .



- 4 Press  $\blacktriangle$   $\blacktriangledown$   $\blacktriangleleft$  or  $\blacktriangleright$  to highlight the channel you want to add to the favorites list, then press **ENTER**. Each channel has a circle to the left. When you add a channel to the *Favorite List*, the circle is filled.

### Notes

- If you highlight a channel in the list for two to four seconds, your TV displays the channel in the background.
- To remove a channel from the favorites list, highlight the channel, then press **ENTER**. The filled circle is replaced with an empty circle and the channel is removed from the list.
- If the list has more than one page, press  $\blacktriangle$   $\blacktriangledown$   $\blacktriangleleft$  or  $\blacktriangleright$  to scroll through the pages.

- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

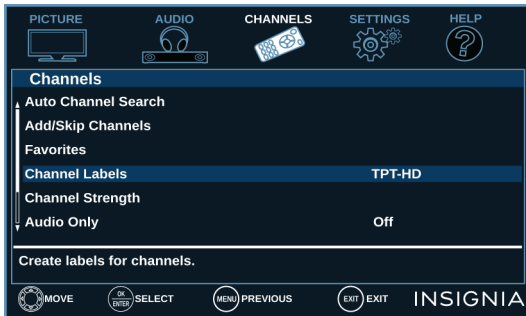
## Viewing a favorite channel

- 1 Press **FAVORITE**. The *Favorite List* opens.
- 2 Press **▲** or **▼** to highlight a channel, then press **ENTER**.

## Adding or changing a channel label

If a channel is not already labeled, you can label the channel to make it easier to identify. You can also relabel a channel that is already labeled.

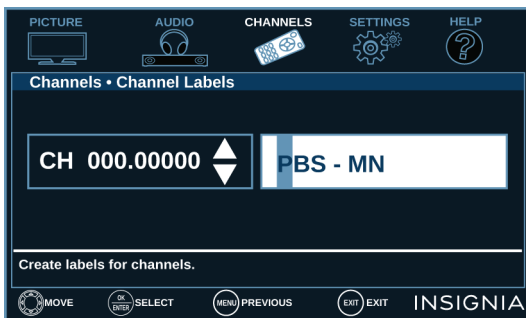
- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **CHANNELS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Channel Labels**, then press **ENTER** or **▶**.



- 4 Press **▲** or **▼** to select the channel you want to label, then press **▶** to move to the channel label field.

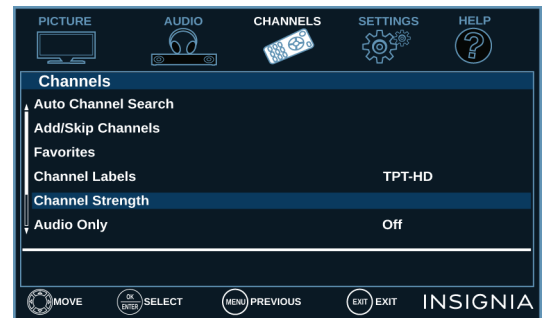


- 5 Press **▲** or **▼** to select a character, then press **◀** or **▶** to move to the previous or next character position. Repeat this step to enter additional characters. You can enter as many as 11 characters (letters, numbers, or symbols).
- 6 When you have completed the label, press **ENTER** or **MENU** to save your label and return to the *Channels* menu.
- 7 Press **EXIT** to close the menu.

## Checking the digital signal strength

You can check the digital signal strength to determine if you need to adjust your antenna or digital cable input. The higher the signal strength, the less likely you are to experience picture degradation.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **CHANNELS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Channel Strength**, then press **ENTER** or **▶**.



- 4 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

## Setting parental controls

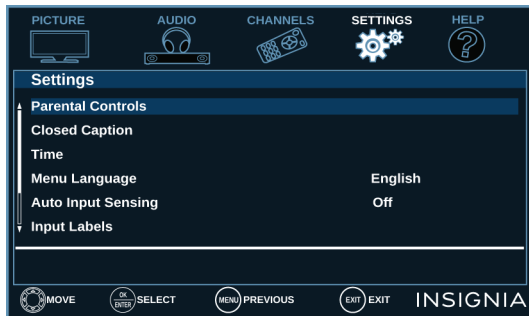
Parental controls let you prevent your children from watching inappropriate material on TV. When set, parental controls read the rating of the program (with some exceptions, such as news and sports) and deny access to programs that exceed the ratings level you select. To watch programs that exceed the selected rating, you must enter a password.

Parental controls include:

- Setting or changing the password
- Blocking unrated TV
- Setting parental control levels
- Downloading rating information
- Locking control buttons

### Setting or changing the password

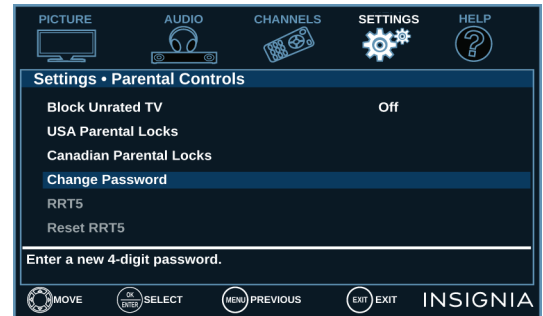
- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



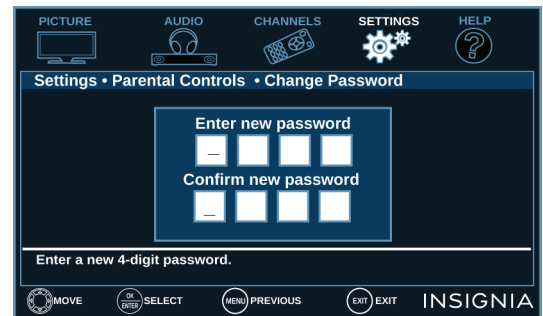
- 3 Press **▲** or **▼** to highlight **Parental Controls**, then press **ENTER** or **▶**.



- 4 Press the number buttons to enter the four-digit password. The default password is **0000**. You should change the password to a number you can remember.



- 5 Press **▲** or **▼** to highlight **Change Password**, then press **ENTER** or **▶**.



- 6 Press the number buttons to enter a password, then enter the password again. A message tells you that the password has been changed.

#### Note

If you forget your password, enter **9999**.

- 7 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

## Blocking unrated TV

Some TV programs, such as news and sports shows are not rated. When **Block Unrated TV** is turned on, TV programs that do not have ratings are blocked. When you try to watch a blocked program, you are prompted to enter the parental controls password.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Parental Controls**, then press **ENTER** or **▶**.



- 4 Press the number buttons to enter the four-digit password.



- 5 Press **▲** or **▼** to highlight **Block Unrated TV**, then press **ENTER** or **▶**.
- 6 Press **▲** or **▼** to select **On** (to block unrated TV) or **Off** (to unblock unrated TV).
- 7 Press **ENTER**, **MENU**, or **◀** to return to the previous menu, or press **EXIT** to close the menu.

## Setting parental control levels

You can set parental controls for the U.S. and Canada.

### U.S. rating levels

#### U.S. TV ratings

NONE	Not rated
TV-Y	All children
TV-Y7	Suitable for children 7 and older
TV-G	General audiences
TV-PG	Parental guidance suggested
TV-14	Parental guidance strongly suggested
TV-MA	Mature audiences only

Some of the age-based TV Parental Guidelines ratings also have content-based ratings.

#### U.S. TV content ratings

All	All ratings are blocked
FV	Fantasy violence
L	Strong language
S	Sexual situations
V	Violence
D	Suggestive dialog

#### U.S. movie (MPAA) ratings

None	Movie not rated
G	General audiences
PG	Parental guidance suggested
PG-13	Suitable for children 13 and older
R	Parental guidance suggested for children under 17
NC-17	Not suitable for children under 17
X	Adults only

### Canadian rating levels

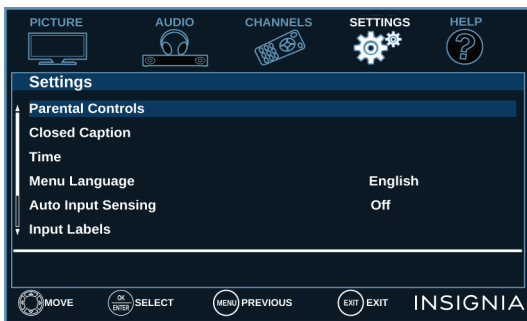
#### Canadian English ratings

E	Exempt programming
C	Suitable for all children
C8+	Suitable for children 8 and older
G	General audiences
PG	Parental guidance suggested
14+	Suitable for children 14 and older
18+	Adult only

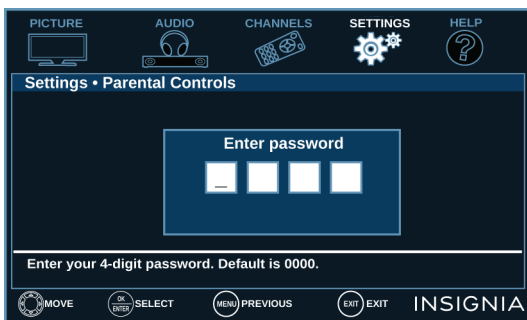
**Canadian French ratings**

E	Exempt programming
G	General audiences
8ans+	Suitable for children 8 and older
13ans+	Suitable for children 13 and older
16ans+	Suitable for children 16 and older
18ans+	Adult only

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Parental Controls**, then press **ENTER** or **▶**.



- 4 Press the number buttons to enter the four-digit password.

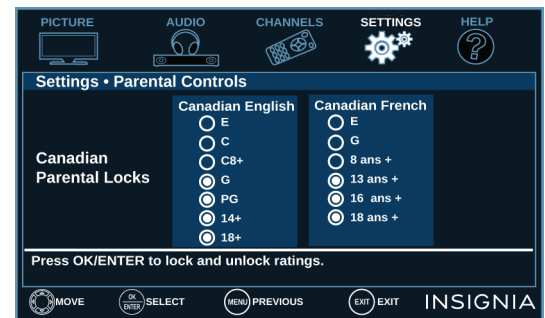


- 5 Press **▲** or **▼** to highlight **USA Parental Locks**, then press **ENTER**. (To set Canadian ratings, select **Canadian Parental Locks**.)

**USA Parental Locks**



**Canadian Parental Locks**



- 6 Press **◀** or **▶** to highlight:
  - **Movie Ratings** or **TV Ratings** for USA ratings.
  - **Canadian English** or **Canadian French** for Canadian ratings.
- 7 Press **▲** or **▼** to select the rating. If a rating has sub-ratings, press **◀** or **▶** to highlight a sub-rating.

**Note**  
When you block a rating, that rating and all higher ratings are blocked.

- 8 Press **ENTER** to confirm. The circle next to a blocked rating is filled.
- 9 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

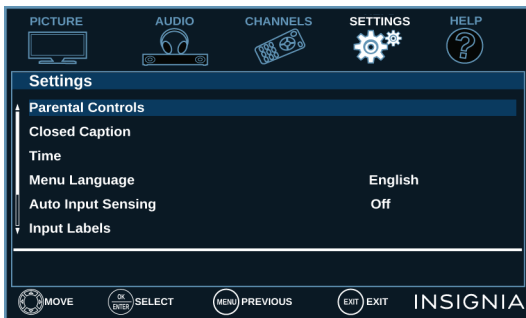
## Downloading rating information

If the program you are viewing has downloadable rating information, you can download the information to use when setting parental controls.

### Note

If the program you are viewing does not have RRT5 rating information, RRT5 is grayed on the *Settings · Parental Controls* menu and cannot be selected.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



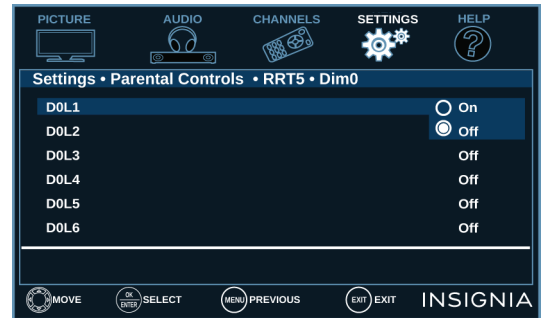
- 3 Press **▲** or **▼** to highlight **Parental Controls**, then press **ENTER** or **▶**.



- 4 Press the number buttons to enter the four-digit password.



- 5 Press **▲** or **▼** to highlight **RRT5**, then press **ENTER**. The screen that opens may vary depending on the broadcaster.



- 6 Press **▲▼◀▶** to select the program and content types you want to block, then press **ENTER**.
- 7 To reset the RRT5 information to the factory default, press **▲** or **▼** to highlight **Reset RRT5**.



- 8 Press **ENTER**.
- 9 Press **▲** or **▼** to highlight **OK** or **Cancel**, then press **ENTER**.
- 10 Press **ENTER**, **MENU**, or **◀** to return to the previous menu, or press **EXIT** to close the menu.

## Locking control buttons

When the button lock is turned **On**, the buttons on the side of your TV are locked, and you can only operate your TV using the remote control.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Button Lock**, then press **ENTER** or **▶**.
- 4 Press **▲** or **▼** to select **On** (locks the buttons) or **Off** (unlocks the buttons).
- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

## Using closed captioning

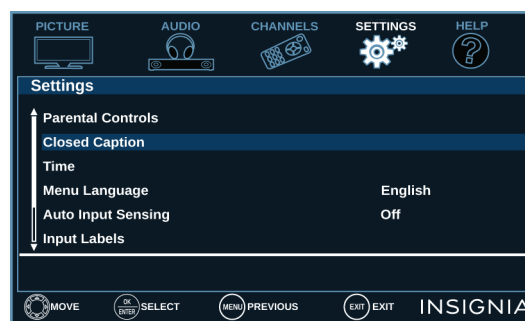
Closed captioning displays a text version of the TV program audio or displays information provided by the broadcaster.

Closed caption controls include:

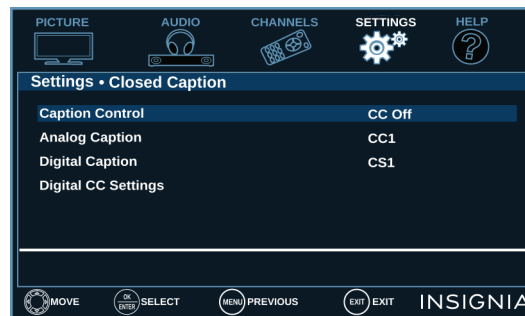
- Turning closed captioning on or off
- Selecting the analog closed captioning mode
- Selecting the digital closed captioning mode
- Customizing digital closed captioning settings

### Turning closed captioning on or off

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Closed Caption**, then press **ENTER** or **▶**.



- 4 Press **▲** or **▼** to highlight **Caption Control**, then press **ENTER** or **▶**.
- 5 Press **▲** or **▼** to select **CC Off** (turns off closed captioning), **CC On** (turns on closed captioning), or **CC on when mute** (turns on closed captioning when the sound is muted).
- 6 Press **ENTER**, **MENU**, or **◀** to return to the previous menu, or press **EXIT** to close the menu.

#### Note

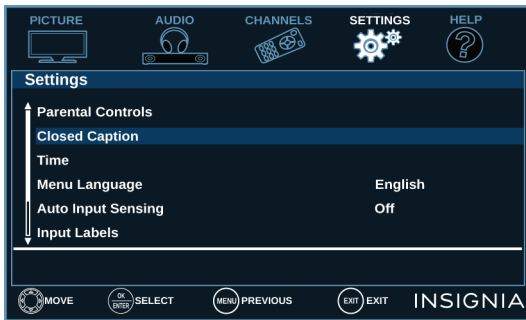
You can also press **CCD** to turn closed captioning on or off.



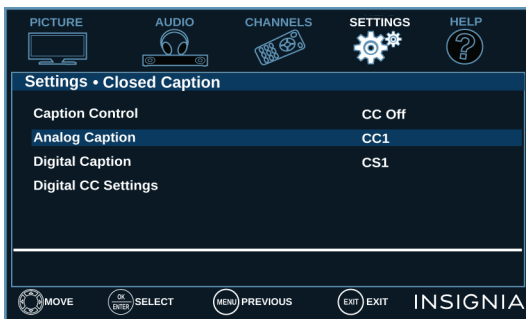
## Selecting the analog closed captioning mode

Analog channels usually have one or more closed captioning modes. The CC1 mode usually displays a text version of the TV program audio in a small banner. The other CC modes display information provided by the broadcaster. The Text modes display information in a box that covers half of the screen.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Closed Caption**, then press **ENTER** or **▶**.

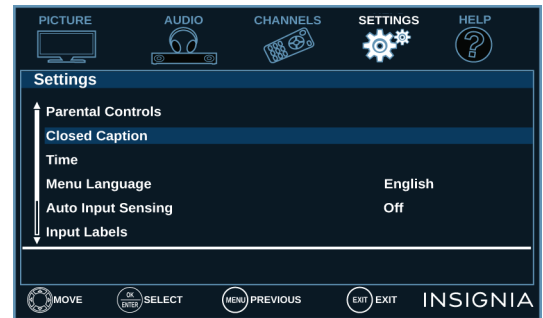


- 4 Press **▲** or **▼** to highlight **Analog Caption**, then press **ENTER** or **▶**.
- 5 Press **▲** or **▼** to select an analog caption setting. You can select:
  - **CC1** through **CC4**—Closed captioning appears in a small banner across the bottom of the screen. **CC1** is usually the “printed” version of the audio. **CC2** through **CC4** display content provided by the broadcaster.
  - **Text1** through **Text4**—Closed captioning covers half or all of the screen. **Text1** through **Text4** display content provided by the broadcaster.
- 6 Press **ENTER**, **MENU**, or **◀** to return to the previous menu, or press **EXIT** to close the menu.

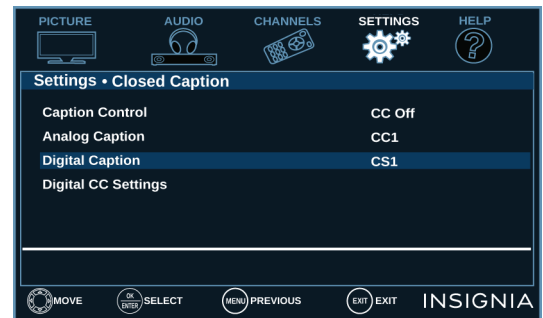
## Selecting the digital closed captioning mode

Digital channels usually have one or more closed captioning modes. The CC1 mode usually displays a text version of the TV program audio in a small banner. The other CC modes display information provided by the broadcaster. CS1 mode displays a text version of the audio in the same language as the audio.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



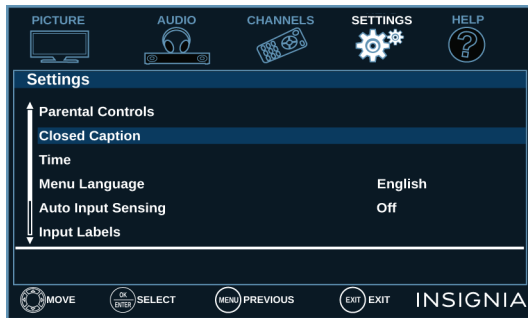
- 3 Press **▲** or **▼** to highlight **Closed Caption**, then press **ENTER** or **▶**.



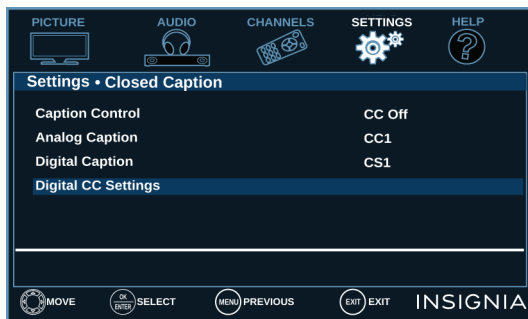
- 4 Press **▲** or **▼** to highlight **Digital Caption**, then press **ENTER** or **▶**.
- 5 Press **▲** or **▼** to select a digital caption setting. You can select:
  - **CS1** through **CS6**—CS1 is usually the “printed” version of the audio. CS2 through CS6 display content provided by the broadcaster. You can change the way digital closed captioning is displayed on the screen. For more information, see [“Customizing digital closed captioning settings”](#) on page 57.
  - **CC1** through **CC4**—Closed captioning appears in a small banner across the bottom of the screen. **CC1** is usually the “printed” version of the audio. **CC2** through **CC4** display content provided by the broadcaster.
- 6 Press **ENTER**, **MENU**, or **◀** to return to the previous menu, or press **EXIT** to close the menu.

## Customizing digital closed captioning settings

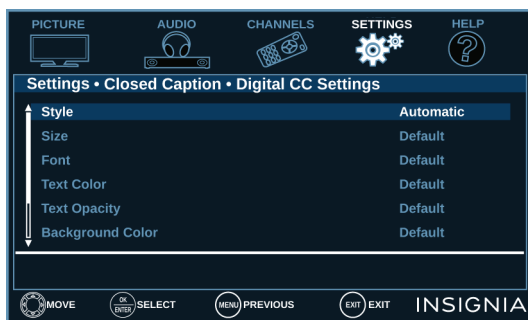
- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Closed Caption**, then press **ENTER** or **▶**.



- 4 Press **▲** or **▼** to highlight **Digital CC Settings**, then press **ENTER** or **▶**.



- 5 Press **ENTER**, then press **▲** or **▼** to select **Custom**.
- 6 Press **▲** or **▼** to highlight an option, then press **ENTER**, **MENU**, or **◀**. You can select:
  - **Size**—Selects the font size.
  - **Font**—Selects the font style.
  - **Text Color**—Selects the color for the words.
  - **Text Opacity**—Selects the opacity level for the words.
  - **Background Color**—Selects the color for the background.
  - **Background Opacity**—Selects the opacity level for the background.
  - **Edge Effect**—Selects the style of the letter edge.
  - **Edge Color**—Selects the color of the letter edge.
- 7 Press **ENTER**, **MENU**, or **◀** to return to the previous menu, or press **EXIT** to close the menu.

## Adjusting time settings

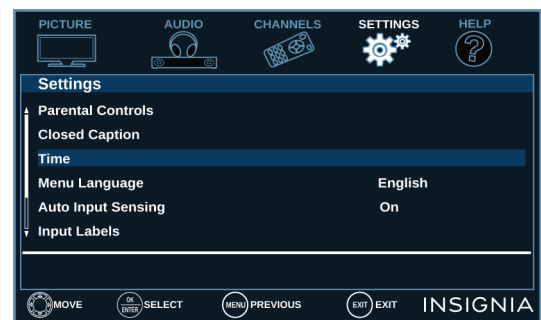
This section includes:

- [Setting the clock](#)
- [Setting the sleep timer](#)

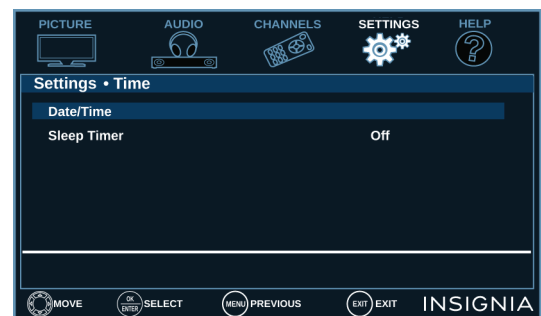
### Setting the clock

If you skipped the steps in the Easy Setup wizard for setting the date and time or if you move your TV to a different time zone, you can reset the clock to the correct time.

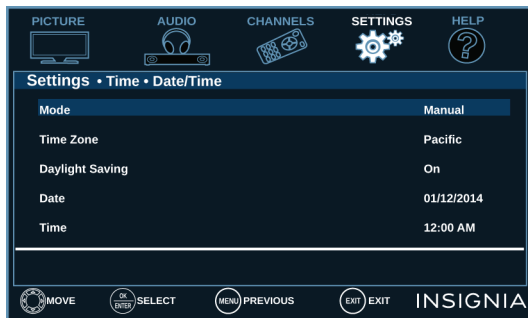
- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Time**, then press **ENTER** or **▶**.



- 4 Press **▲** or **▼** to highlight **Date / Time**, then press **ENTER**.

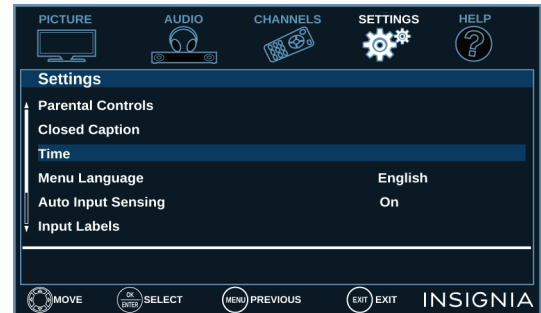


- 5 Press **▲** or **▼** to highlight **Mode**, then press **ENTER** or **▶**.
- 6 Press **▲** or **▼** to highlight **Manual** (to set the options manually) or **Auto** (the options are automatically set by the TV signal source), then press **ENTER**.
- 7 Press **▲** or **▼** to highlight **Time Zone**, then press **ENTER** or **▶**.
- 8 Press **▲** or **▼** to select your time zone, then press **ENTER**. You can select **Eastern, Central, Mountain, Pacific, Alaska, Hawaii, Atlantic, or Newfoundland**.
- 9 If your viewing area observes Daylight Saving Time, press **▲** or **▼** to highlight **Daylight Saving**, then press **ENTER**.
- 10 Press **▲** or **▼** to select **On** or **Off**, then press **ENTER** to close the menu.
- 11 If you selected **Manual** for **Mode**:
  - Press **▲** or **▼** to highlight **Date**, then press **▶** to access the setting. Press **◀** or **▶** to highlight **Month, Day, or Year**, then press **▲** or **▼** to adjust the setting. When you are finished, press **ENTER**.
  - Press **▲** or **▼** to highlight **Time**, then press **▶** to access the setting. Press **◀** or **▶** to highlight **Hour, Minute, or AM/PM field**, then press **▲** or **▼** to adjust the setting. When you are finished, press **ENTER**.
- 12 Press **ENTER, MENU**, or **◀** to return to the previous menu, or press **EXIT** to close the menu.

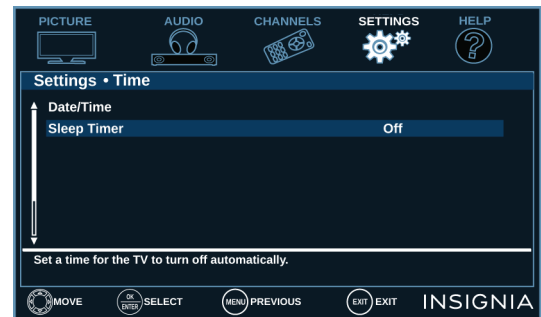
## Setting the sleep timer

You can specify the amount of time before your TV automatically turns off.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Time**, then press **ENTER** or **▶**.



- 4 Press **▲** or **▼** to highlight **Sleep Timer**, then press **ENTER** or **▶**.
- 5 Press **▲** or **▼** to select the amount of time before your TV turns off automatically. You can select **Off, 5, 10, 15, 30, 60, 90, 120, 180, or 240** minutes. To turn off the sleep timer, select **Off**.
- 6 Press **ENTER, MENU**, or **◀** to return to the previous menu, or press **EXIT** to close the menu.

### Note

You can also press **SLEEP** to set the sleep timer.

## Adjusting menu settings

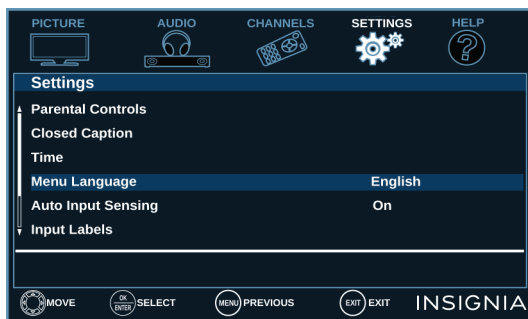
You can adjust how the TV menus look by:

- Selecting the menu language
- Turning the input sensor on or off
- Labeling an input source

### Selecting the menu language

Your TV can display the on-screen menu in English, French, or Spanish. When you set up your TV for the first time, you selected the language. You can change the menu language to a different language.

- 1 Press **MENU**.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **ENTER**.



- 3 Press ▲ or ▼ to highlight **Menu Language**, then press **ENTER** or ▶.
- 4 Press ▲ or ▼ to highlight a language, then press **ENTER**. You can select **English**, **Français**, or **Español**.
- 5 Press **ENTER**, **MENU**, or ◀ to return to the previous menu, or press **EXIT** to close the menu.

### Turning the input sensor on or off

When the input sensor feature is turned on, your TV automatically detects which video jacks have devices connected to them and turned on. Your TV uses this information to determine what options you can select on the *INPUT SOURCE* list when you press **INPUT**.

- 1 Press **MENU**.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **ENTER**.

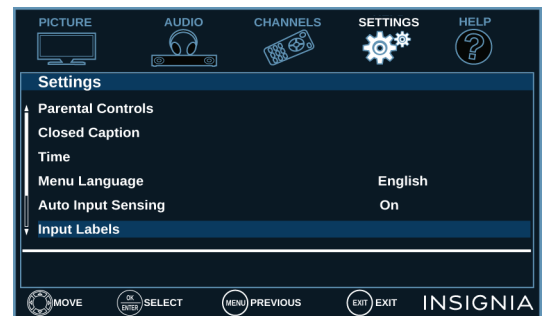


- 3 Press ▲ or ▼ to highlight **Auto Input Sensing**, then press **ENTER** or ▶.
- 4 Press ▲ or ▼ to select **On** (turns on the input sensor) or **Off** (turns off the input sensor).
- 5 Press **ENTER**, **MENU**, or ◀ to return to the previous menu, or press **EXIT** to close the menu.

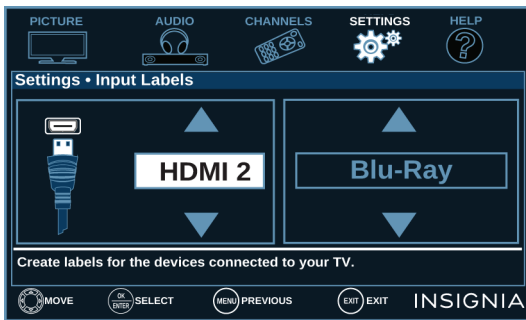
### Labeling an input source

You can add a label to an input source to make it easier to identify.

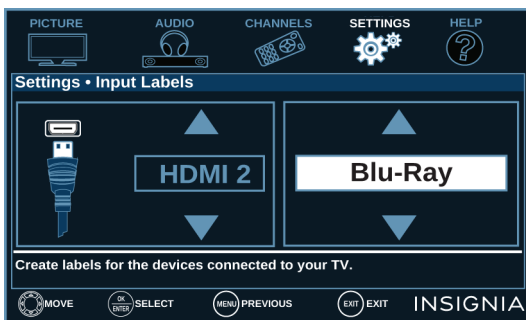
- 1 Press **MENU**.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Input Labels**, then press **ENTER** or **▶**.



- 4 Press **▲** or **▼** to select the input source you want to label, then press **▶** to move to the label field.



- 5 Press **▲** or **▼** to select a preset label or select **Custom** to create your own label.
- 6 If you select **Custom**, press **ENTER**, then **▲** or **▼** to select characters (letters or numbers) and **◀** or **▶** to move character to character.
- 7 When you have completed the label, press **ENTER** to save your label. The next time you press **INPUT**, your label appears in the **INPUT SOURCE** list.
- 8 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

## Maintaining

- Do not use your TV in areas that are too hot or too cold, because the cabinet may warp or the screen may malfunction. Your TV works best in temperatures that are comfortable to you.
- Storage temperatures are 32° to 122°F (0° to 50°C).
- Working temperatures are 41° to 104°F (5° to 40°C).
- Do not place your TV in direct sunlight or near a heat source.

### Cleaning the TV cabinet

Clean the cabinet with a soft, lint-free cloth. If the cabinet is especially dirty, moisten a soft, lint-free cloth in a weak detergent solution, squeeze the excess moisture from the cloth, then wipe the cabinet with the cloth. Use a clean cloth to dry the cabinet.

### Cleaning the TV screen

Clean the screen with a soft, lint-free cloth.

## Troubleshooting

Use the following troubleshooting information to solve common problems.

### Warning

Do not try to repair your TV yourself. Contact authorized service personnel.

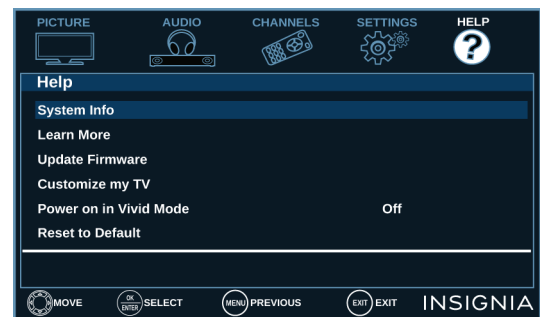
Troubleshooting topics include:

- [Viewing system information](#)
- [Learning more](#)
- [Updating the TV firmware](#)
- [Customizing TV settings](#)
- [Restoring settings to the defaults](#)
- [Video and audio problems](#)
- [Remote control problems](#)
- [General problems](#)
- [INlink \(CEC-compatible\) device problems](#)

### Viewing system information

You may need to view system information during troubleshooting.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **HELP**, then press **▼** or **ENTER**.

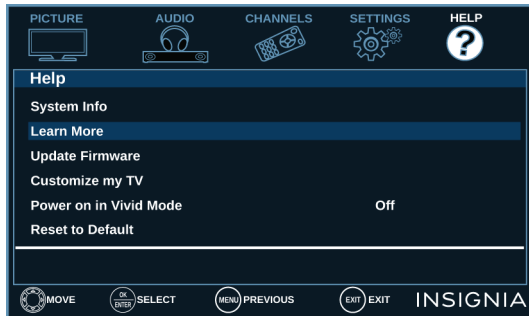


- 3 Press **▲** or **▼** to highlight **System Info**, then press **ENTER** or **▶**.
- 4 If your TV uses open source code, press **ENTER** to display the open source code information.
- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

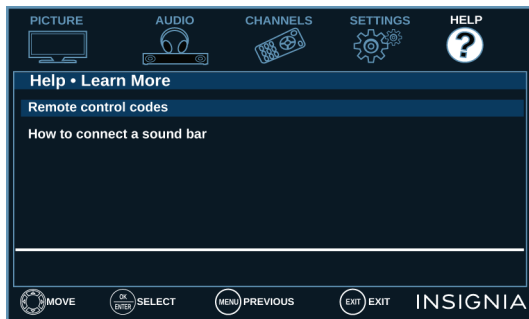
## Learning more

You can learn more about Roku, MHL, remote control codes, and connecting a sound bar.

- 1 Press **MENU**.
- 2 Press ◀ or ▶ to highlight **HELP**, then press ▼ or **ENTER**.



- 3 Press ▲ or ▼ to highlight **Learn More**, then press **ENTER** or ▶.



- 4 Press ▲ or ▼ to highlight a topic, then press **ENTER**. Your TV displays information about the topic you selected.
- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

## Updating the TV firmware

If your TV is behaving oddly and you have tried all the solutions in the troubleshooting pages, you may need to update the TV firmware.

### Cautions

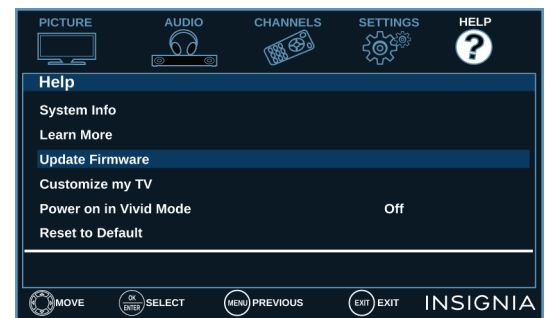
- Make sure that you have tried all other solutions before you upgrade the firmware.
- While the firmware is updating, do not turn off your TV.

### Note

To update the TV firmware, you need a:

- Computer with an available USB port
- High-speed Internet connection
- USB flash drive

- 1 On the *Help* menu, select **System Info**, then write down your model, revision, and firmware information. See “[Viewing system information](#)” on page 60.
- 2 On a computer, go to [www.insigniaproducts.com](http://www.insigniaproducts.com), then click **Support & Service**. Enter **NS-32D220NA16** in the box under **Manual, Firmware, Drivers & Product Information**, then click ▶.
- 3 Follow the instructions in the *Firmware Installation Guide* on the Insignia website to download the firmware update and copy it to a USB flash drive.
- 4 Plug the USB flash drive into the **USB** port on the side of your TV.
- 5 Press **MENU**.
- 6 Press ◀ or ▶ to highlight **HELP**, then press ▼ or **ENTER**.



- 7 Press ▲ or ▼ to highlight **Update Firmware**, then press **ENTER** or ▶. A message asks if you want to update the TV firmware.
- 8 Highlight **OK**, then press **ENTER**.

While your TV installs the firmware update, your TV displays a status screen. **Do not turn off your TV until the update is complete.**

- 9 When the update is complete, unplug the USB flash drive, then press **ENTER**. Your TV turns off then on to complete the update.
- 10 If the channel list has been deleted, you need to scan for channels. For more information, see "Automatically scanning for channels" on page 47.

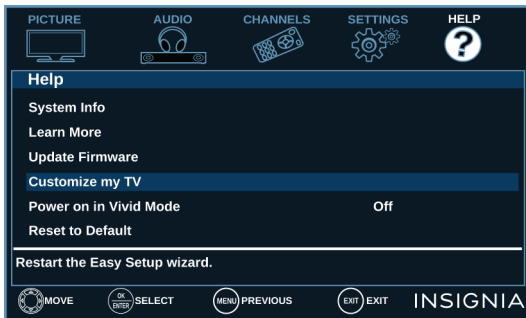
### Note

- If you see a message that says the firmware file is incorrect, make sure that you have downloaded the correct file for your model.
- If you see a message that says the update failed or the TV screen is blank and the power LED is blinking red then blue, turn off your TV, turn it back on, then run the upgrade again.

## Customizing TV settings

If you did not complete the customization part of the *Easy Setup* wizard the first time you turned on your TV, you can run the wizard again to customize settings. When you run the *Easy Setup* wizard, your TV will not reset any changes you made on the *Picture*, *Audio*, *Channels*, or *Settings* menu. The wizard scans for channels and replaces the channel information stored on your TV.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **HELP**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Customize my TV**, then press **ENTER** or **▶**. A message asks if you want to run the *Easy Setup* wizard.
- 4 Press **▲** or **▼** to select **OK** (to reset) or **Cancel** (to not reset), then press **ENTER**.

If you select **OK**, your TV turns off, then turns on again. The *Easy Setup* wizard opens. Go through the *Easy Setup* wizard. For more information, see "Turning on your TV for the first time" on page 33.

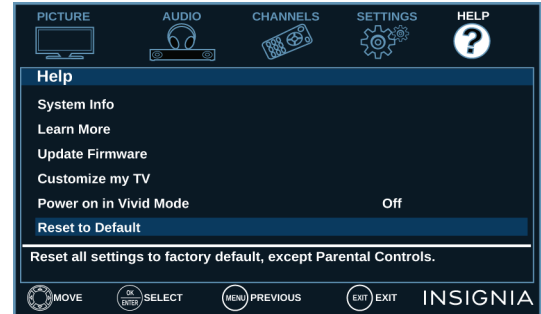
OR

If you select **Cancel** or press **MENU**, your TV returns to the *Help* menu without making any changes. If you press **EXIT**, the on-screen menu closes without making any changes.

## Restoring settings to the defaults

When you restore default settings, all the settings you have customized (except parental controls) are reset.

- 1 Press **MENU**.
- 2 Press **◀** or **▶** to highlight **HELP**, then press **▼** or **ENTER**.



- 3 Press **▲** or **▼** to highlight **Reset to Default**, then press **ENTER** or **▶**.
- 4 Press **▲** or **▼** to select **OK** (to reset) or **Cancel** (to not reset), then press **ENTER**.

If you select **OK**, your TV turns off, then turns on again. Go through the *Easy Setup* wizard. For more information, see "Turning on your TV for the first time" on page 33.

OR

If you select **Cancel** or press **MENU**, your TV returns to the *Help* menu without making any changes.

OR

If you press **EXIT**, the on-screen menu closes without making any changes.



**Video and audio**

Problem	Solution
Picture does not fill the screen. There are black bars around the picture.	<ul style="list-style-type: none"> <li>Press <b>ASPECT</b> to change the aspect ratio. See the "Aspect Ratio" option in "Adjusting the TV picture" on page 43.</li> </ul>
No picture (screen is not lit) and no sound.	<ul style="list-style-type: none"> <li>Press <b>⏻</b> on the TV or the remote control.</li> <li>Make sure that the <b>Audio Only</b> option is set to <b>Off</b>. See "Playing TV audio only" on page 47.</li> <li>Make sure that the video cables are connected correctly and securely to your TV.</li> <li>Adjust the contrast and brightness. See "Adjusting the TV picture" on page 43.</li> <li>Make sure that the power adapter is plugged into a working outlet.</li> <li>Press <b>INPUT</b> and make sure that the correct video input source is selected. See "Selecting the video input source" on page 35.</li> <li>Try another channel. The station may be experiencing problems.</li> <li>Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 13 or "Connecting an antenna or cable TV (no box)" on page 17.</li> <li>Check the closed caption settings. Some TEXT modes can block the screen. See "Using closed captioning" on page 55.</li> </ul>

Problem	Solution
Dark, poor, or no picture (screen is lit), but sound is good.	<ul style="list-style-type: none"> <li>Try another channel. The station may be experiencing problems.</li> <li>Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 13 or "Connecting an antenna or cable TV (no box)" on page 17.</li> <li>Adjust the brightness. See "Adjusting the TV picture" on page 43.</li> <li>Press <b>PICTURE</b> to change to a different picture mode. See "Adjusting the TV picture" on page 43.</li> <li>If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 50.</li> <li>If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.</li> <li>Make sure that the video cables are connected correctly and securely to your TV.</li> <li>The video cable(s) you are using may be bad. Try a new set.</li> </ul>
No color, dark picture, or color is not correct.	<ul style="list-style-type: none"> <li>Try another channel. The station may be experiencing problems.</li> <li>Adjust the color settings. See "Adjusting the TV picture" on page 43.</li> <li>Make sure that the video cables are connected correctly and securely to your TV.</li> <li>Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 13 or "Connecting an antenna or cable TV (no box)" on page 17.</li> <li>If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 50.</li> <li>If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.</li> </ul>



Problem	Solution
Only snow (noise) appears on the screen.	<ul style="list-style-type: none"> <li>• Try another channel. The station may be experiencing problems.</li> <li>• Make sure that the antenna or cable TV is connected correctly and securely. See “<a href="#">Connecting a cable or satellite box</a>” on page 13 or “<a href="#">Connecting an antenna or cable TV (no box)</a>” on page 17.</li> <li>• If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see “<a href="#">Checking the digital signal strength</a>” on page 50.</li> <li>• If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.</li> </ul>
Picture quality is good on some channels and poor on others. Sound is good.	<ul style="list-style-type: none"> <li>• The problem may be caused by a poor or weak signal from the broadcaster or cable TV provider.</li> <li>• If you connect to cable without a set-top box and experience poor picture quality, you may need to install a set-top box to improve signal reception and picture quality. Contact your cable TV provider about upgrading to a set-top box.</li> </ul>

Problem	Solution
Dotted lines or stripes appear on the screen.	<ul style="list-style-type: none"> <li>• Make sure that the antenna or cable TV is connected correctly and securely. See “<a href="#">Connecting a cable or satellite box</a>” on page 13 or “<a href="#">Connecting an antenna or cable TV (no box)</a>” on page 17.</li> <li>• If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see “<a href="#">Checking the digital signal strength</a>” on page 50.</li> <li>• If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.</li> <li>• Make sure that the video cables are connected correctly and securely to your TV.</li> <li>• The video cable(s) you are using may be bad. Try a new set.</li> <li>• Other devices (for example, a surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from the TV to eliminate the interference.</li> </ul>
Double images.	<ul style="list-style-type: none"> <li>• Use a highly directional outdoor antenna, cable TV, or satellite TV.</li> </ul>
The picture has a few bright or dark spots.	<ul style="list-style-type: none"> <li>• A few bright or dark spots on an LCD screen is normal. It does not affect the operation of your TV.</li> </ul>

Problem	Solution
Good picture, but no sound.	<ul style="list-style-type: none"> <li>• Increase the volume.</li> <li>• Make sure that the sound is not muted.</li> <li>• Make sure that you do not have headphones connected. When headphones are connected, no sound comes from the TV speakers.</li> <li>• Press <b>AUDIO</b> to change to a different audio mode.</li> <li>• If you are using a home theater system, sound bar, or external speaker system, make sure it is turn on and is not muted.</li> <li>• If you are using a home theater system, sound bar, or external speaker system, make sure that you have selected the correct output mode.</li> <li>• If you are using a home theater system, sound bar, or external speaker system and have connected it with a digital optical cable, go to the <i>Audio</i> menu, highlight <b>Digital Audio Format/Audio Delay</b>, then press <b>ENTER</b>. Set the <b>Audio Format</b> option to <b>PCM</b>. See the <b>Digital Audio Format/Audio Delay</b> option in "<a href="#">Adjusting sound settings</a>" on page 45.</li> <li>• Make sure that the audio cables are connected correctly and securely to your TV.</li> <li>• Make sure that the antenna or cable TV is connected correctly and securely. See "<a href="#">Connecting a cable or satellite box</a>" on page 13 or "<a href="#">Connecting an antenna or cable TV (no box)</a>" on page 17.</li> <li>• If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "<a href="#">Checking the digital signal strength</a>" on page 50.</li> <li>• The audio cables you are using may be bad. Try a new set.</li> </ul>
Poor picture.	<ul style="list-style-type: none"> <li>• Make sure that the room is not too bright. Light reflecting off the screen can make the picture difficult to see.</li> <li>• If an S-VHS camera or a camcorder is connected while another connected device is turned on, the picture may be poor. Turn off one or more devices.</li> </ul>

Problem	Solution
Good sound, but poor color.	<ul style="list-style-type: none"> <li>• Adjust the contrast, color, and brightness settings. See "<a href="#">Adjusting the TV picture</a>" on page 43.</li> </ul>
Audio noise.	<ul style="list-style-type: none"> <li>• Other devices (for example, a surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from the TV to eliminate the interference.</li> </ul>
No output from one of the speakers.	<ul style="list-style-type: none"> <li>• Adjust the audio balance. See "<a href="#">Adjusting sound settings</a>" on page 45.</li> <li>• Make sure that the audio cables are connected correctly and securely to your TV.</li> </ul>
After images appear.	<ul style="list-style-type: none"> <li>• Do not display a still image, such as a logo, game, or computer image, for an extended period of time. This can cause a permanent after-image to be burned into the screen. This type of damage is not covered by your warranty.</li> </ul>

## Remote control

Problem	Solution
Remote control does not work.	<ul style="list-style-type: none"> <li>• Make sure that the power adapter is plugged into a working outlet.</li> <li>• Make sure that there are no obstructions between the remote control and the remote control sensor on the front of the TV.</li> <li>• Point the remote control directly at the remote control sensor on your TV. For the location of the remote control sensor, see "<a href="#">Aiming the remote control</a>" on page 31.</li> <li>• The supplied batteries are wrapped tightly in clear plastic. Make sure that you have removed this plastic from the batteries.</li> <li>• Make sure that the batteries are installed correctly. See "<a href="#">Installing remote control batteries</a>" on page 31.</li> <li>• Replace dead batteries with new batteries. See "<a href="#">Installing remote control batteries</a>" on page 31.</li> </ul>

Problem	Solution
Trouble programming your existing universal remote control.	<ul style="list-style-type: none"> <li>• See instructions in <a href="#">“Programming universal remote controls”</a> on page 32.</li> <li>• Codes are subject to change. For up-to-date codes, go to <a href="http://www.insigniaproducts.com/remotecodes">www.insigniaproducts.com/remotecodes</a></li> <li>• Replace dead batteries with new batteries.</li> <li>• Refer to the User Guide that accompanied your universal remote control and contact the manufacturer if problems persist.</li> </ul>

## General

Problem	Solution
No power.	<ul style="list-style-type: none"> <li>• Make sure that the power adapter is plugged into a working outlet.</li> <li>• Unplug the power adapter, wait 60 seconds, then plug the adapter back in and turn on your TV.</li> <li>• Other devices (for example, a surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device, at a time, then turning on your TV to determine which device is causing interference. After you have determined which device is causing interference, move it further from the TV to eliminate the interference.</li> </ul>
“No signal” error message is displayed.	<ul style="list-style-type: none"> <li>• Press <b>INPUT</b> and make sure that you have selected the correct input for the device or service you are trying to use.</li> <li>• If you are using a cable or satellite box, use the remote that came with that box to change channels.</li> </ul>
After Auto Channel Search, there are no channels.	<ul style="list-style-type: none"> <li>• Reception can vary by channel depending on the broadcast power level of a given station. Contact your cable or satellite TV provider.</li> <li>• Make sure that the antenna or cable/satellite TV is connected securely to your TV.</li> <li>• Try replacing the cable between the antenna/cable or cable/satellite box and your TV.</li> </ul>

Problem	Solution
When I press <b>INPUT</b> , I cannot select my device (it is grayed out).	<ul style="list-style-type: none"> <li>• Turn on the device. Your TV automatically detects and displays which video jacks have devices connected to them when the devices are turned on.</li> <li>• Turn off Auto Input Sensing. See <a href="#">“Turning the input sensor on or off”</a> on page 59.</li> </ul>
One or more channels do not display.	<ul style="list-style-type: none"> <li>• Make sure that the channels are not blocked. See <a href="#">“Blocking unrated TV”</a> on page 52.</li> <li>• Make sure that the channels are not hidden. The channel may have been deleted from the channel list. You can tune to the channel by pressing the number buttons or you can add the channel back to the channel list. See <a href="#">“Hiding channels”</a> on page 49.</li> <li>• If you are using a cable or satellite box, use the remote that came with that box to change channels.</li> <li>• Press <b>INPUT</b> and make sure that you have selected the correct input for the device or service you are trying to use.</li> <li>• If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see <a href="#">“Checking the digital signal strength”</a> on page 50.</li> </ul>
Password is lost.	<ul style="list-style-type: none"> <li>• Enter <b>9999</b> to access parental controls, then set a new password. See <a href="#">“Setting or changing the password”</a> on page 51.</li> </ul>
Some settings cannot be accessed.	<ul style="list-style-type: none"> <li>• If a setting is grayed, the setting is not available in the current video input mode (for example TV mode). Change to a different video input source. See <a href="#">“Selecting the video input source”</a> on page 35.</li> </ul>
TV cabinet creaks.	<ul style="list-style-type: none"> <li>• When the TV is in use, the temperature rises naturally and may cause the cabinet to expand or contract which can cause a creaking noise. This is not a malfunction.</li> </ul>

Problem	Solution
Control buttons do not work.	<ul style="list-style-type: none"> <li>Make sure that the <b>Button Lock</b> option is set to <b>Off</b>. See "<a href="#">Locking control buttons</a>" on page 55.</li> <li>Unplug the power adapter, wait a few seconds, then plug the adapter back in and turn on your TV.</li> </ul>
TV keeps turning off.	<ul style="list-style-type: none"> <li>Make sure that the sleep timer is not turned on. See "<a href="#">Setting the sleep timer</a>" on page 58.</li> </ul>
A retail banner is displayed.	<ul style="list-style-type: none"> <li>You selected <b>Store Display Mode</b> when you ran the <i>Easy Setup</i> wizard. Run the <i>Easy Setup</i> wizard and select <b>Home User Mode</b> on the <i>Viewing Environment</i> screen. See "<a href="#">Customizing TV settings</a>" on page 62.</li> </ul>

### INlink (CEC-compatible) device

Problem	Solution
My TV is not displaying the video from the connected CEC device.	<ul style="list-style-type: none"> <li>Make sure that the HDMI cable is connected securely to your TV and the device.</li> <li>Make sure that the device is connected to your TV with an HDMI cable.</li> <li>Make sure that the device is a CEC device. See the documentation that came with the device for more information.</li> <li>Press <b>INPUT</b> and make sure that the correct video input source is selected. See "<a href="#">Selecting the video input source</a>" on page 35.</li> <li>Make sure that the INlink feature is turned on. See "<a href="#">Turning INlink on or off</a>" on page 38.</li> <li>Try adjusting the TV picture. See "<a href="#">Adjusting the TV picture</a>" on page 43.</li> <li>If the device is not an Insignia device, it may not be compatible with your TV.</li> </ul>

Problem	Solution
My TV is not playing the audio from the connected CEC device.	<ul style="list-style-type: none"> <li>Make sure that the HDMI cable is connected securely to your TV and the device.</li> <li>Make sure that the device is connected to your TV with an HDMI cable.</li> <li>Make sure that the device is a CEC device. See the documentation that came with the device.</li> <li>Make sure that the TV volume is turned up and not muted.</li> <li>Try adjusting the TV sound. See "<a href="#">Adjusting sound settings</a>" on page 45.</li> <li>Make sure that the TV speakers are turned on and not muted. See "<a href="#">Adjusting sound settings</a>" on page 45.</li> <li>Make sure that the INlink feature is turned on. See "<a href="#">Turning INlink on or off</a>" on page 38.</li> <li>If you have connected an HDMI CEC audio receiver, adjust the volume on the receiver. When your TV detects an audio receiver, the TV speakers turn off and sound plays through receiver speakers only.</li> <li>If the device is not an Insignia device, it may not be compatible with your TV.</li> <li>If you are using a home theater system, sound bar, or external speaker system, make sure that it is turned on and is not muted.</li> <li>If you are using a home theater system, sound bar, or external speaker system, make sure that you have selected the correct output mode.</li> <li>If you are using a home theater system, sound bar, or external speaker system and have connected with a digital optical cable, go to the <i>Audio</i> menu, highlight <b>Digital Audio Format/Audio Delay</b>, then press <b>ENTER</b>. Set the <b>Audio Format option</b> to <b>PCM</b>. See the <b>Digital Audio Format/Audio Delay</b> option in "<a href="#">Adjusting sound settings</a>" on page 45.</li> </ul>

Problem	Solution
My TV's remote control does not control the device.	<ul style="list-style-type: none"> <li>• Make sure that there are no obstructions between the remote control and the remote control sensors on your TV and the device.</li> <li>• Depending on the device, all the buttons may not work.</li> <li>• Make sure that the INlink feature is turned on. See "Turning INlink on or off" on page 38.</li> <li>• If you are trying to control the volume on an HDMI CEC audio receiver using your TV remote control, make sure that the <b>TV Speakers</b> option on the <i>Audio</i> menu is set to <b>On</b>. See "Adjusting sound settings" on page 45.</li> <li>• If you are trying to control the volume on an HDMI CEC audio receiver using your TV remote control, make sure that the <b>Audio Receiver</b> option on the <i>INlink</i> menu is set to <b>On</b>. See "Turning Audio Receiver on or off" on page 39.</li> <li>• The device may not support this feature. See the documentation that came with the device for more information.</li> </ul>
The device does not show up in the INlink Device list.	<ul style="list-style-type: none"> <li>• Make sure that the device is turned on.</li> <li>• Make sure that the HDMI cable is connected securely to your TV and the device.</li> <li>• Make sure that the device is connected to your TV with an HDMI cable.</li> <li>• Make sure that the INlink feature is turned on. See "Turning INlink on or off" on page 38.</li> <li>• Make sure that the device is a CEC device. See the documentation that came with the device.</li> <li>• If the device is not an Insignia device, it may not be compatible with your TV.</li> </ul>

Problem	Solution
My device does not turn off when I turn off my TV.	<ul style="list-style-type: none"> <li>• Make sure that the INlink feature is turned on. See "Turning INlink on or off" on page 38.</li> <li>• Make sure that <b>Device Auto Power Off</b> is set to <b>On</b> on the <i>INlink</i> menu. See "Turning Device Auto Power Off on or off" on page 38.</li> <li>• The device may not support this feature. See the documentation that came with the device for more information.</li> </ul>
My TV does not turn on when I turn on my device.	<ul style="list-style-type: none"> <li>• Make sure that the INlink feature is turned on. See "Turning INlink on or off" on page 38.</li> <li>• Make sure that <b>TV Auto Power On</b> is set to <b>On</b> on the <i>INlink</i> menu. See "Turning TV Auto Power On on or off" on page 39.</li> <li>• The device may not support this feature. See the documentation that came with the device for more information.</li> </ul>

Problem	Solution
The <b>Audio Receiver</b> setting on the <i>INlink</i> menu keeps turning back on after it is turned off.	<ul style="list-style-type: none"> <li>When <b>Audio Receiver</b> is set to <b>Off</b> and <b>INlink Control</b> is set to <b>On</b> and you make an adjustment to the audio receiver (for example, turn the volume knob or press a button), <b>Audio Receiver</b> is automatically set to <b>On</b>. To prevent this from happening, turn off the INlink feature. See <a href="#">"Turning INlink on or off"</a> on page 38.</li> </ul>
Two volume bars appear when adjusting the volume.	<ul style="list-style-type: none"> <li>When you adjust the volume on the audio receiver or with the TV remote control, a double volume bar appears, one for the TV volume and one for the audio receiver volume.</li> </ul>
I cannot select the <b>Root Menu</b> option on the <i>INlink</i> menu. OR The device's root menu does not open when I select <b>Root Menu</b> on the <i>INlink</i> menu.	<ul style="list-style-type: none"> <li>The device may not support this feature. See the documentation that came with the device for more information.</li> </ul>

**Note**

If the problem is not solved by using these troubleshooting instructions, turn off your TV, then turn it on again.

# Specifications

Specifications are subject to change without notice.

## Dimensions and weight

Without stand	17.5 × 29 × 3.4 in. (44.5 × 73.6 × 8.7 cm) 8.8 lbs. (4 kg)
With stand	19.2 × 29 × 6.4 in. (48.7 × 73.6 × 16.4 cm) 9 lbs. (4.1 kg)

## Screen

Screen size measured diagonally	31.5 in.
Display type	LED
Screen refresh rate	60Hz
Display resolution	720p
Panel resolution	1366 (H) × 768 (V)
Aspect ratio	16:9
Contrast ratio (typical)–panel	3,000:1
Dynamic contrast ratio–list value	500,000:1
TV Brightness (minimum) cd/m2	160 nits
Comb filter	3d y/c digital
Response time	6.5 ms
Horizontal viewing angle	178°
Vertical viewing angle	178°

## Display resolutions

HDMI suggested resolutions	720p, 480p, 480i
Component video suggested resolutions	720p, 480p, 480i

## Tuner

Analog	NTSC
Digital	ATSC, 8-VSB, Clear-QAM

## Inputs

HDMI	2 (side) E-EDID compliant HDCP compliant
Component video	1 (back)
Composite video	1 (back) Shared with component Y
Shared audio (component and composite)	Yes
S-Video	No
PC/VGA	No
3.5mm PC audio input	No
DVI	No
USB	1 (side) Output 5v/500ma Supports JPEG and firmware upgrade
Antenna/Cable	1 (back)

## Outputs

Video	No
Analog audio/Headphone	1 (side)
Digital audio	1 (optical) (side)
WiFi	No
Ethernet	No

## Audio

DTS Tuning Package	DTS Sound
Speakers	Number: 2 Watts per channel: 5W

## Power

Power consumption	On: 50W Standby: <0.5W
Power input	12V, 5A



**Miscellaneous**

<b>OSD languages</b>	English, French, Spanish
<b>INLink</b>	Yes
<b>Game Mode</b>	Yes
<b>ENERGY STAR qualified</b>	No
<b>Internet connectable</b>	No
<b>V-Chip (version 2.0)</b>	Yes
<b>Sleep timer</b>	Yes
<b>Channel labeling</b>	Yes
<b>VESA mount (mm) (horizontal × vertical)</b>	200 × 100
<b>VESA mount screws</b>	M4 type

**Note**

The length of the wall-mount screws vary depending on the wall-mount bracket you purchased. See the instructions that came with the wall-mount bracket for screw lengths.

## Legal notices

**FCC Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Warning**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Cables**

Connections to this device must be made with shielded cables with metallic RF/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

**Canadian Notice**

CAN ICES-3 (B)/NMB-3(B)  
Standard Television Receiving Apparatus — Appareil de réception télévision ordinaire, Canada BETS-7 / NTMR-7

**IC Statement**

This device complies with Industry Canada licence—exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

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If you require additional information please call the Insignia support line at 1-877-467-4289.



# One-year limited warranty - Insignia Televisions

## Definitions:

Insignia Products ("Insignia") warrants to you, the original purchaser of this new Insignia-branded television ("Product"), that the Product shall be free of defects in the original manufacture of the material or workmanship for a period of one (1) year from the date of your purchase of the Product ("Warranty Period"). For this warranty to apply, your Product must be purchased in the United States or Canada from a Best Buy or Future Shop authorized dealer of Insignia brand products only that are packaged with this warranty statement.

## How long does the coverage last?

The Warranty Period lasts for 1 year (365 days) from the date you purchased the Product. Your purchase date is printed on the receipt you received with the Product.

## What does this warranty cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the Product is determined to be defective by an authorized Insignia repair center or store personnel, Insignia will (at its sole option): (1) repair the Product with new or rebuilt parts; or (2) replace the Product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Insignia and are not returned to you. If service of Products or parts are required after the Warranty Period expires, you must pay all labor and parts charges. This warranty lasts as long as you own your Insignia Product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the Product.

## How to obtain warranty service?

If you purchased the Product at a Best Buy or Future Shop retail store location and your television Product has a screen size of less than 42 inches, please take your original receipt and the Product to any Best Buy or Future Shop store. Make sure that you place the Product in its original packaging or packaging that provides the same amount of protection as the original packaging. If you purchased the Product from a Best Buy or Future Shop online web site, mail your original receipt and the Product to the address listed on the web site. Make sure that you put the Product in its original packaging or packaging that provides the same amount of protection as the original packaging.

To obtain in-home warranty service for a television with a screen 42 inches or larger, in the United States call 1-888-BESTBUY, Canada call 1-866-BESTBUY for Future Shop call 1-800-663-2275. Call agents will diagnose and correct the issue over the phone or will have an Insignia-approved repair technician dispatched to your home.

## Where is the warranty valid?

This warranty is valid only in the United States and Canada at Best Buy or Future Shop branded retail stores or websites to the original purchaser of the product in the country where the original purchase was made.

## What does the warranty not cover?

This warranty does not cover:

- Customer instruction/education
- Installation
- Set up adjustments
- Cosmetic damage
- Damage due to acts of God, such as power surges
- Accident(s)
- Misuse, unintentional or intentional
- Abuse, unintentional or intentional
- Negligence
- Commercial purposes/use, including but not limited to use in a place of business or in communal areas of a multiple dwelling condominium or apartment complex, or otherwise used in a place of other than a private home.
- Modification of any part of the Product, including the antenna

- Plasma display panel damaged by static (non-moving) images applied for lengthy periods (burn-in).
- Damage due to incorrect operation or maintenance
- Connection to an incorrect voltage or power supply
- Outages, static or other problems with over-the-air reception of television broadcast signals.
- Attempted repair by any person not authorized by Insignia to service the Product
- Products sold "as is" or "with all faults"
- Consumables, including but not limited to batteries (i.e. AA, AAA, C etc.)
- Products where the factory applied serial number has been altered or removed
- Loss or Theft of this product or any part of the product
- Failures or Damage caused by any contact including but not limited to liquids, gels or pastes.
- Up to three (3) pixel failures (dots that are dark or incorrectly illuminated) grouped in an area smaller than one tenth (1/10) of the display size or up to five (5) pixel failures throughout the display. (Pixel based displays may contain a limited number of pixels that may not function normally.)
- Problems with delay in motion or action of video images while playing first-person style video games.

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Contact Insignia:

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